

Varybond

CRAMOLIN

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## Proven and in demand for decades



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certified**



### Engineering for progress

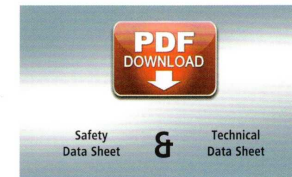
Today's metal fabricating industry is more sophisticated and complex than ever before. It stands to reason that the products used as consumables must represent the state of the art in their respective requirements. The ITW corporate logo identifies a group of enterprises with international presence and solid competence in a variety of areas. Their combined expertise results in cutting edge solutions meeting the needs of MRO specialists in industry and trade.

### Certifications breeds confidence

Quality at ITW is more than just a marketing slogan. All our company processes are certified by the German Industrial Standards Institute (DIN). This gives users the guarantee that our products meet high standards and are safe to use. This is signed and sealed.

### ITW: Extended competence

VARYBOND®, CRAMOLIN®, ROCOL®, DYKEM® and SCRUBS® are brands fostered by the ITW company. It unites many top companies in the fields of technology and industry. For customers this means concentrated resources in the areas of manufacture, research, procurement and sales - with advantages in quality, product documentation, availability and price. Our strengths are ultimately your benefit.



### VARYBOND

Locking, bonding and sealing

### CRAMOLIN

Solutions from research to production

### ROCOL

Occupational health and safety

### SCRUBS

The ultra-strong hand cleaner towel for maintenance, repair and overhaul

### DYKEM

Industrial Markers

### Safety is a huge priority

Application and work safety are in good hands with ITW. Material safety data sheets and technical data sheets are available at [www.itwcp.de](http://www.itwcp.de).

### Environmental sustainability

A part of our philosophy

Chemical substances must be handled with response. ITW ensures that the raw materials are largely environmentally friendly. An active ingredient which has little or no harmful effect is used wherever possible. ITW develops and researches for the preservation and protection of our environment.



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## Anaerobic adhesives

Thread locking compounds



### VARYBOND® 12-22

Low strength thread locking compound

General purpose product of average viscosity. Ideal for thread connections requiring easy disassembly. Max. thread diameter of M36 and max. thread reach of 2x thread diameter. Also used for securing metering or adjusting screws with fine thread.

Packaging size 50 ml  
Units / Carton 10 Bottles  
Item No. VA3 12-22

Colour	purple
Thread size	thru M36
Cured strength	low
Gap filling width	thru 0.2 mm
Final strength	1 – 3 hours
Breakaway torque	4 – 7 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	800 – 1,200
Density	1.09 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 12-41

Medium strength thread locking compound

General purpose product for medium strength threaded connections. Also suitable for fine thread applications. Assembled parts can easily be removed using standard tools.

Packaging size 50 ml  
Units / Carton 10 Bottles  
Item No. VA3 12-41

Colour	blue
Thread size	thru M12
Cured strength	medium
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	~ 15 Nm
Viscosity mPas	
Spindle RPM 1 / 20	100 – 150
Density	1.12 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 12-42

Medium strength thread locking compound

General purpose product for a diversity of applications, featuring excellent thermal stability and media resistance. Especially suitable for use with stainless and electroplated fasteners. Relatively unaffected by surface contamination. Quick hardening, also on stainless steel and passivated surfaces. Conforms to DIN EN 751-1.

Packaging size 50 ml  
Units / Carton 10 Bottles  
Item No. VA3 12-42

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	~ 21 Nm
Viscosity mPas	
Spindle RPM 1 / 20	5,000 – 7,000
Spindle RPM 3 / 20	1,500 – 2,500
Density	1.12 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 12-43

Medium strength thread locking compound

General purpose product for a diversity of applications, featuring excellent thermal stability and media resistance. Especially suitable for use with stainless and electroplated fasteners. Gap filling properties due to higher viscosity. Quick hardening, also on stainless steel and passivated surfaces. Conforms to DIN EN 751-1.

Packaging size 50 ml  
Units / Carton 10 Bottles  
Item No. VA3 12-43

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	14 – 22 Nm
Viscosity mPas	
Spindle RPM 6 / 20	6,500 – 8,500
Spindle RPM 6 / 100	2,800 – 4,500
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



# Anaerobic adhesives



## VARYBOND® 12-45

Medium strength thread locking compound

General purpose product featuring excellent media resistance and thermal stability. Especially suited for use with stainless and electroplated fasteners. Relatively unaffected by surface contamination. Hardens quickly, also on stainless steel and passivated surfaces.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 12-45

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	~ 21 Nm
Viscosity mPas	
Spindle RPM 1 / 20	5,000 – 7,000
Spindle RPM 3 / 20	1,500 – 2,500
Density	1.12 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



## VARYBOND® 12-62

High strength thread locking compound

Mainly used for dedicated applications in high load securing of threaded connections. Ensures permanent installation of stud bolts. Resists disassembly by means of standard tools.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 12-62

Colour	red
Thread size	thru M36
Cured strength	high
Gap filling width	thru 0.25 mm
Final strength	2 – 4 hours
Breakaway torque	20 – 24 Nm (M10)
Viscosity mPas	
Spindle RPM 3 / 2,5	5,000 – 7,000
Spindle RPM 3 / 20	1,200 – 1,800
Density	1.11 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



## VARYBOND® 12-71

High strength thread locking compound

Thread locking compound for general purpose applications. Specially formulated for high-strength threaded connections. Used in installations of stud bolts or ball and roller bearings that do not normally require subsequent removal.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 12-71

Colour	green
Thread size	thru M20
Cured strength	high
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	> 30 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.11 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



## VARYBOND® 12-75

Heat resistant thread locking compound

High strength product for heavy duty and temperature resistant threaded connections as well as pipe threads. Secures and seals cap screws, stud bolts, nuts and threaded inserts. Protects against impact, vibration and corrosion. High viscosity provides additional gap filling properties. Depending on thread diameter breakout or removal is difficult.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 12-75

Colour	red
Thread size	thru M36
Cured strength	high and heat resistant
Gap filling width	thru 0.20 mm
Final strength	3 – 6 hours
Breakaway torque	> 23 Nm (M10)
Viscosity mPas	
Spindle RPM 4 / 20	8,000 – 12,000
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +200° C

# Anaerobic adhesives

Thread locking compounds



## VARYBOND® 12-90

Thread locking compound capillary action

Used for post installation securing of small screws and cylindrical parts. Ideal for housing screws, adjusting and carburetor adjusting screws, etc. Capillary action allows the product to wick into pin porosities, micro pores and hairline cracks, for a reliably sealing.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 12-90

Colour	green
Thread size	thru M5
Cured strength	medium to high
Gap filling width	thru 0.07 mm
Final strength	0.5 – 1 hour
Breakaway torque	18 – 23 Nm (M10)
Viscosity mPas	
Spindle RPM 1 / 20	10 – 20
Density	1.07 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C

Pipe thread sealants



## VARYBOND® 15-42

Medium strength hydraulic sealant

Quick hardening, solvent resistant anaerobic adhesive for sealing pneumatic and hydraulic connections. Pressure resistant up to burst pressure. Applications in machine manufacture, automotive service, on construction equipment and agricultural machinery.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 15-42

Colour	brown
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3/4"
Cured strength	medium
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	14 – 20 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	500 – 700
Density	1.05 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C
Material to be sealed	Metal



## VARYBOND® 15-72

PTFE pipe thread sealant

PTFE-filled adhesive with a low friction coefficient. Specially formulated for easy disassembly of coarse-threaded joints on metal pipes requiring slow pipe sealant hardening. Suitable in particular for pipe joints with tapered or cylindrical threads (e.g., Whitworth B.S.P. threads) to DIN 2999. This flexible and chemical resistant adhesive features a ductile yield before breakage in excess of 100%. Conforms to DIN EN 751-1.

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-72

Colour	white
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3" (M80)
Cured strength	low
Gap filling width	thru 0.30 mm
Final strength	1 – 3 hours
Breakaway torque	5 – 8 Nm (M10)
Viscosity mPas	
Spindle RPM 6 / 2,5	40,000 – 60,000
Spindle RPM 6 / 20	15,000 – 20,000
Density	1.0 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C
Material to be sealed	Metal



## VARYBOND® 15-77

Pipe thread sealant with potable water approval

General purpose pipe thread sealant for all types of tapered and cylindrical pipe thread joints. Seals instantly at low pressure. Approved for use with drinking water and natural-gas installations. Application in sprinkler systems, gas fitting installations etc. Conforms to DIN EN 751-1 (DVGW).

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-77

Colour	fluorescent yellow
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3" (M80)
Cured strength	medium
Gap filling width	thru 0.50 mm
Final strength	1 – 3 hours
Breakaway torque	15 – 20 Nm (M10)
Viscosity mPas	
Spindle RPM 6 / 2,5	60,000 – 80,000
Spindle RPM 6 / 20	20,000 – 30,000
Density	1.05 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C
Material to be sealed	Metal



## Anaerobic adhesives

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### VARYBOND® 15-86

High strength pipe thread sealant

General purpose product with specific suitability for high strength pipe thread connections requiring high temperature and media resistance. Also used to install stud bolts. Provides gap bridging properties. Conforms to DIN EN 751-1 (DVGW).

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 15-86

Colour	fluorescent red
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 2"
Cured strength	high
Gap filling width	thru 0.30 mm
Final strength	6 – 12 hours
Breakaway torque	25 – 35 Nm (M10)
Viscosity mPas	
Spindle RPM 4 / 20	6.000 – 7.000
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C
Material to be sealed	Metal



### VARYBOND® 15-73

Low strength surface gasketing

Seals all rigid metallic flanges and surfaces, especially on aluminium diecast or cast steel components. The product's low strength ensures easy parts removal. Quick and easy application with paint roller or screen printing. The gasket film features a ductile yield before breakage in excess of 100%.

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-73

Colour	fluorescent green
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	low
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.30 mm
Final strength	3 – 6 hours
Tensile strength	2 – 4 N / sq. mm
Viscosity mPas	
Spindle RPM 6 / 2,5	40.000 – 60.000
Spindle RPM 6 / 20	15.000 – 25.000
Density	1.05 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 15-18

Medium strength flexible surface sealer

Used for sealing dimensionally stable flange connections. Specially formulated for sealing aluminium flanges or joints of dissimilar metals. Drip-free, i.e. the product can be applied to vertical surfaces or in overhead situations. Product film compensates for peak-to-valley surface roughness. Medium resistance to disassembly. Seals instantly to contain low pressures. Retains slightly flexibility up to a temperature of +120° C.

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-18

Colour	red
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	medium
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	1 – 3 hours
Tensile strength	4 – 12 N / sq. mm
Viscosity mPas	
Spindle RPM 0,5	800.000 – 1.000.000
Spindle RPM 5	200.000 – 300.000
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C

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## Anaerobic adhesives

Surface gasketing



### VARYBOND® 15-74

Medium strength surface gasketing

Rapid hardening general purpose surface gasketing compound for flanges and surfaces, especially suitable for application on inactive metals. Semi flexible. Higher viscosity provides improved gap filling properties. The product's low adhesive strength ensures easy parts removal. Quick and easy application by means of paint roller or screen printing. The gasket film withstands a ductile yield before breakage in excess of 100%.

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-74

Colour	fluorescent
Gasket type	liquid
Flange type	rigid / flexible
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	medium
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	3 – 6 hours
Tensile strength	8 – 10 N / sq. mm
Viscosity mPas	
Spindle RPM 6 / 2,5	80.000 – 120.000
Spindle RPM 6 / 20	30.000 – 40.000
Density	1.05 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 15-10

High strength surface gasketing

Suitable as an alternative to solid gasket materials in flange connections and transmission housings. The product excels through its high resistance to water, gas, oil, LPG and a host of technical chemicals. Provides high temperature sealing properties, plus extra-high impact and vibration resistance.

**Packaging size** 50 ml  
**Units / Carton** 6 Bottles  
**Item No.** VA3 15-10

Colour	fluorescent
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	high
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	3 – 6 hours
Tensile strength	6 – 8 N / sq. mm
Viscosity mPas	
Spindle RPM 7 / 0,5	300.000 – 1.000.000
Spindle RPM 7 / 5	200.000 – 300.000
Density	1.05 g / cm <sup>3</sup>
Temperature range	-55° C to +200° C

Assembly cements



### VARYBOND® 16-41

Medium strength assembly cement

General purpose adhesive for fixing bushed bearings and shaft-mounted gears. Replaces mechanical securing elements such as feather keys or wedges.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-41

Colour	yellow
Cured strength	medium
Hardening system	anaerobic
Thread size	thru M12
Final strength	30 – 40 minutes
Gap filling width	0.15 mm
Viscosity mPas	
Spindle RPM 1 / 20	500 – 600
Density	1.07 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



### VARYBOND® 16-03

High strength assembly cement

Particularly suitable for fixing shafts, bearings, sleeves and gears in "as-supplied conditions" i.e. without requiring prior cleaning. Also installs ball bearings and oil-impregnated bronze bushings. Excellent hardening properties even at lower temperatures and on passive metal surfaces.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-03

Colour	green
Cured strength	high
Hardening system	anaerobic
Thread size	thru M12
Final strength	30 – 40 minutes
Gap filling width	0.15 mm
Viscosity mPas	
Spindle RPM 1 / 20	100 – 150
Density	1.07 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



# Anaerobic adhesives

## VARYBOND® 16-38

High strength assembly cement

Quick hardening and suitable for highest static shearing stresses as well as dynamic loads. For all-round applications in fixing gears and belt pulleys on shafts and armatures on electric motor spindles.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-38

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M36
Final strength	0.5 – 1 hour
Gap filling width	0.2 mm
Breakaway torque	> 40 Nm
Viscosity mPas	
Spindle RPM 3 / 20	2.000 – 3.000
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +150° C



## VARYBOND® 16-40

High strength assembly cement

Slow hardening anaerobic adhesive providing excellent thermal resistance. Particularly suitable for retaining cylindrical components in press fit or shrink fit installations.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-40

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M20
Final strength	12 – 24 hours
Gap filling width	0.15 mm
Breakaway torque	> 25 Nm
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +175° C



## VARYBOND® 16-20

High strength heat resistant assembly cement

Extremely resistant against elevated temperatures. This product provides high strength fixation and retention of cylindrical parts in close sliding fit installations.

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-20

Colour	green
Cured strength	high
Hardening system	anaerobic
Thread size	thru M36
Final strength	1 – 3 hours
Gap filling width	0.20 mm
Breakaway torque	> 25 Nm
Viscosity mPas	
Spindle RPM 4 / 20	8.000 – 12.000
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +200° C



## VARYBOND® 16-48

High strength heat resistant assembly cement

Quick hardening high strength product for the assembly of cylindrical parts, including cylinder liners in engine blocks. Features excellent thermal resistance and high resistance to acids and alkaline (caustic) solutions. Excellent adhesion properties on smooth surfaces. Conforms to DIN EN 751-1 (DV/GW).

**Packaging size** 50 ml  
**Units / Carton** 10 Bottles  
**Item No.** VA3 16-48

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M20
Final strength	0.5 – 1 hour
Gap filling width	0.15 mm
Breakaway torque	> 30 Nm
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.1 g / cm <sup>3</sup>
Temperature range	-55° C to +175° C



# Cyanoacrylate adhesives

## VARYBOND® 14-06

Elastomer adhesive

Standard product type for quick and easy adhesion of all common types of elastomers (from solid rubber to closed-cell sponge), particularly styrene-butadiene rubber (SBR) and ethylen-propylenelastomer (EPDM). High resistance to ageing and climate effects. It handles even difficult to adhere plastics with ease when used with Primer L.

**Packaging size** 20 / 50 g  
**Units / Carton** 12 Bottles (20 g)  
 10 Bottles (50 g)  
**Item No.** 20 g VC3 14-06  
 50 g VC4 14-06

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 30 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	3 – 6 s
EPDM / EPDM	1 – 3 s
Final strength	24 hours
Viscosity mPas	15 – 30
Density	1.05 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Plastics



## VARYBOND® 14-15

Plastic adhesive

Excellent adhesive properties when bonding materials with different expansion coefficients. Product viscosity makes it ideal for working with porous materials. Also used on leather, cork, wood, etc.

**Packaging size** 20 / 50 g  
**Units / Carton** 12 Bottles (20 g)  
 10 Bottles (50 g)  
**Item No.** 20 g VC3 14-15  
 50 g VC4 14-15

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	50 – 70 s
SBR / SBR	5 – 8 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	5 – 8 s
Final strength	24 hours
Viscosity mPas	1.000 – 1.300
Density	1.08 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Metals / Plastics



## VARYBOND® 14-38

Plastic adhesive

Quick hardening cyanoacrylate adhesive. General product properties make it suitable for a wide range of applications, especially when a variety of dissimilar plastics need to be stucked together.

**Packaging size** 20 / 50 g  
**Units / Carton** 12 Bottles (20 g)  
 10 Bottles (50 g)  
**Item No.** 20 g VC3 14-38  
 50 g VC4 14-38

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	30 – 40 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	3 – 5 s
EPDM / EPDM	1 – 3 s
Final strength	24 hours
Viscosity mPas	20 – 40
Density	1.06 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Plastics



## VARYBOND® 14-205

Plastic adhesive

Excellent adhesive for bonding materials with different expansion coefficients. Product viscosity makes it ideal for application on porous materials.

**Packaging size** 20 / 50 g  
**Units / Carton** 12 Bottles (20 g)  
 10 Bottles (50 g)  
**Item No.** 20 g VC3 14-205  
 50 g VC4 14-205

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 35 s
SBR / SBR	3 – 6 s
Polycarb. / Polycarb.	8 – 10 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	3 – 10
Density	1.06 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Plastics



Elastomer

Plastic

Assembly cements



# Cyanoacrylate adhesives

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## VARYBOND® 14-01

General purpose adhesive

General purpose, medium viscosity adhesive for a broad range of applications, including all types of materials pairings, such as metals, plastic, paper, leather and wood.

<b>Packaging size</b>	<b>20 / 50 g</b>
<b>Units / Carton</b>	<b>12 Bottles (20 g)</b>
	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>20 g VC3 14-01</b>
	<b>50 g VC4 14-01</b>

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	40 – 60 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	80 – 110
Density	1.06 g / cm <sup>3</sup>
Colour	transparent
Formulated for	general purpose



## VARYBOND® 14-35

General purpose adhesive

Particularly well suited to porous materials as well as rough and uneven surfaces. Excellent gap filling properties. For bonding ceramics, ferrites, sintered metals, wood, cork, leather, textiles, etc.

<b>Packaging size</b>	<b>20 / 50 g</b>
<b>Units / Carton</b>	<b>12 Bottles (20 g)</b>
	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>20 g VC3 14-35</b>
	<b>50 g VC4 14-35</b>

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	50 – 70 s
SBR / SBR	7 – 10 s
Polycarb. / Polycarb.	15 – 22 s
EPDM / EPDM	8 – 12 s
Final strength	24 hours
Viscosity mPas	1.800 – 2.200
Density	1.09 g / cm <sup>3</sup>
Colour	transparent
Formulated for	porous materials, rough surfaces



## VARYBOND® 14-96

General purpose adhesive

General purpose medium viscosity adhesive for a broad range of applications, including all types of materials pairings.

<b>Packaging size</b>	<b>5 / 20 / 50 g</b>
<b>Units / Carton</b>	<b>16 Bottles (5 g)</b>
	<b>12 Bottles (20 g)</b>
	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>5 g VC05 14-96</b>
	<b>20 g VC3 14-96</b>
	<b>50 g VC4 14-96</b>

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	40 – 60 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	80 – 110
Density	1.06 g / cm <sup>3</sup>
Colour	transparent
Formulated for	general purpose



## VARYBOND® 14-93

Plastic adhesive

Excellent adhesive for joining materials with different expansion coefficients. Ideal to use on porous materials thanks to its viscosity.

<b>Packaging size</b>	<b>20 / 50 g</b>
<b>Units / Carton</b>	<b>12 Bottles (20 g)</b>
	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>20 g VC3 14-93</b>
	<b>50 g VC4 14-93</b>

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 35 s
SBR / SBR	3 – 6 s
Polycarb. / Polycarb.	8 – 10 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	3 – 10
Density	1.06 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Plastics

# Cyanoacrylate adhesives

General purpose



## VARYBOND® 14-54 GEL

General purpose with a high viscosity

Excellent gap filling properties. Perfect to use overhead. For bonding ceramics, ferrites, metals, plastic, wood, cork, leather.

<b>Packaging size</b>	<b>20 ml</b>
<b>Units / Carton</b>	<b>12 Tubes</b>
<b>Item No.</b>	<b>VC3 14-54</b>

Temperature range	-30° C to +78° C
Final strength	
Alu / Alu	90 – 110 s
SBR / SBR	18 – 24 s
Polycarb. / Polycarb.	22 – 25 s
EPDM / EPDM	25 – 35 s
Final strength	24 hours
Viscosity mPas	jellylike, thixotropic
Density	1.08 g / cm <sup>3</sup>
Colour	transparent
Formulated for	general purpose

Odorless



## VARYBOND® 14-60

Odorless adhesive

Odorless non-blooming cyanoacrylate adhesive. For all applications in which an adhesive may not leave visible traces.

<b>Packaging size</b>	<b>20 / 50 g</b>
<b>Units / Carton</b>	<b>12 Bottles (20 g)</b>
	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>20 g VC3 14-60</b>
	<b>50 g VC4 14-60</b>

Temperature range	-30° C to +100° C
Final strength	
Alu / Alu	90 – 110 s
SBR / SBR	7 – 11 s
Polycarb. / Polycarb.	25 – 35 s
EPDM / EPDM	5 – 8 s
Final strength	24 hours
Viscosity mPas	50 – 90
Density	1.07 g / cm <sup>3</sup>
Colour	transparent
Formulated for	Plastics

Black



## VARYBOND® 14-80

Black Adhesive

Black cyanoacrylate adhesive, which has been developed for all applications under thermal and / or climatic conditions. The product shows excellent resistance against dynamic loads like impacts or vibration. Due to its short-term temperature resistance up to 140° C it is also suitable for SMD technique, where a soldering bath is required later. The black colour allows the use in loudspeakers as well.

<b>Packaging size</b>	<b>50 g</b>
<b>Units / Carton</b>	<b>10 Bottles (50 g)</b>
<b>Item No.</b>	<b>VC4 14-80</b>

Temperature range	-30° C to +120° C
Final strength	
Alu / Alu	25 – 45 s
SBR / SBR	10 – 15 s
EPDM / EPDM	14 – 20 s
Final strength	24 hours
Viscosity mPas	100 – 200
Density	1.06 g / cm <sup>3</sup>
Colour	black
Formulated for	Metal / Plastics



# NDT – Non Destructive Materials Testing



## VARYBOND® NDT 1

Special purpose cleaner

Highly effective cleaner and penetrant remover for fast, non-destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1 ASTM E 1417, ASTM E-165, MIL STD 271.

Packaging size 500 ml  
Units / Carton 12 Aerosol  
Item No. 196171VAR

Description	Aerosol
Product Base	solvent
Colour	transparent
Compatibility with materials	very good



## VARYBOND® NDT 2

Red penetrant

Red dye penetrant for fast, non-destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1, ASTM E 1417, ASTM E-165, MIL STD 271.

Packaging size 500 ml  
Units / Carton 12 Aerosol  
Item No. 197171VAR

Description	Aerosol
Product Base	solvent, colorant, wetting agent
Colour	red
Compatibility with materials	very good



## VARYBOND® NDT 3

White developer

Quick drying developer for fast non-destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1, ASTM E 1417, ASTM E-165, MIL STD 271, McDonnell Douglas PS-2120, BAC 5423.

Packaging size 500 ml  
Units / Carton 12 Aerosol  
Item No. 198171VAR

Description	Aerosol
Product Base	solvent, white pigmentation
Colour	white
Compatibility with materials	very good

# Surface preparation

Preparation



## VARYBOND® Primer F

Activator for anaerobic adhesives

Improves hardening properties when using anaerobic adhesives on galvanized and passivated surfaces. Intensifies the hardening process at low ambient temperatures.

Packaging size 100 ml  
Units / Carton 20 pump sprays  
Item No. 507133VAR

Description	Primer F
Colour	turquoise
Air dry time	short



## VARYBOND® Primer L

Activator for cyanoacrylate adhesives

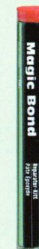
Applicable in situations where plastics with less than ideal bonding properties need to be stuck together, e.g., polypropylene, PTFE, and thermoplastic elastomers.

Packaging size 50 ml  
Units / Carton 12 Aerosols  
Item No. 509111VAR

Description	Primer L
Colour	transparent
Air dry time	none

# Metal filled epoxy resins

Metal-filled epoxy resins



## VARYBOND® Magic Bond

Putty

Manually kneaded two-component product; ready-for-use consistency ensures easy handling. Also bonds on wet surfaces (even under water). Used to plug holes and repair leaks on porous sections of casting moulds. Repaired parts are again ready for machining or deployment within an hour.

Packaging size 114 g  
Units / Carton 12 Bars  
Item No. 511131VAR

Description	putty, hand-kneaded
Colour	grey
Temperature range	up to 121° C
Mixing ratio	inherent in product
Stays workable for	20 minutes
Hardening time	24 hours







## VARYBOND® VB 27

Dark zinc-spray

High zinc content provides particularly thorough corrosion protection. Suitable for application on all ferrous metal parts. Outstanding primer coat for all types of enamels and paints.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 127161VAR

Description	Aerosol
Colour	grey, matte
Pigments	Zinc
Temperature range	up to 450° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	600 – 800 hours



## VARYBOND® VB 83

Bright zinc-spray

Excellent galvanized-quality corrosion protection wherever a bright, silvery colour is desired. Particularly suited to ferrous parts in construction, on vehicles and for repairs of damaged hot-dipped parts.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 183161VAR

Description	Aerosol
Colour	silver, glossy
Pigments	Aluminum / Zinc
Temperature range	up to 350° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	2000 hours



## VARYBOND® VB 84

Aluminium-spray

General purpose coating for all metallic materials. Ideal for the application on automotive exhaust systems, heating radiators, machine parts, etc.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 184161VAR

Description	Aerosol
Colour	silver, glossy
Pigments	Aluminum
Temperature range	up to 700° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	800 hours



## VARYBOND® VB 63

Rust protection - temporary

For application also on moist surfaces. Reliably protects all types of metals and alloys. Transparent corrosion protection, excellent flow properties and surface adhesion, low surface tension. Particularly suitable for protecting semi-finished products, spare parts, gears, ball bearings, shafts, etc. Meets: MIL Specs C-81309E, C-372C, A-A-50493.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 163161VAR

Description	Aerosol
Colour	blue-green
Product base	Mineral oil
Indoor protection	up to 1 year



## VARYBOND® VB 02

Brake & assembly cleaner

Ideal for surface preparation, bonding or sealing surfaces. Particularly suitable for quick removal of oil, contaminants and brake dust from disk brakes and brake components such as brake blocks, rotors, anchor plates and brake shoes. The product is also preferred as a conditioner for surfaces to be painted or bonded. Due to rapid evaporation, short-term exposure will not irritate skin, affect rubber parts or brake seals.

**Packaging size** 500 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 188171VAR

Description	Aerosol
Colour	transparent
Evaporation	rapid
Residue	none



## VARYBOND® VB 05

Electronic cleaner

Ideal spray cleaner for contacts, equipment and components. Particularly suitable for use on switches, electric motors, relays, contactors and housings. Highly effective solvent concentrate ensures the safe removal of soiling and grease accumulations. Evaporates without leaving residues.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 105161VAR

Description	Aerosol
Colour	transparent
Residue	none
Evaporation	medium fast
Compatibility with materials	good



## VARYBOND® VB 06

Degreaser

Heavy-duty spray cleaner removes heavy accumulations of greasy deposits of all types. Especially suitable for clean-up prior to re-lubrication on machine screws, bolts, axles, ball bearings, housings, gears and drive chains.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 106161VAR

Description	Aerosol
Colour	transparent
Evaporation	slow
Compatibility with materials	good
Residue	none



## VARYBOND® VB 32

Foam cleaner

Effective removal of dust, grease, dirt, and nicotine deposits on monitor screens, plastic housings, keyboards and surfaces of all types. Use of product creates antistatic effect that reduces new dust. Also safe for use on displays and TFT flat-screens.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 132161VAR

Description	Aerosol
Colour	clear liquid, white foam
Foam stability	excellent
Compatibility with materials	excellent



# Cleaners and degreasers



## VARYBOND® VB 34

Label remover

Effortless removal of paper labels and adhesives residues. For use on almost all surfaces. Exception: Polystyrene.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 134161VAR

Description	Aerosol
Colour	transparent
Scent	orange



## VARYBOND® VB 70

Gasket remover

Lifts baked-on and dried-out gaskets and gasketing compounds within 10 – 15 minutes. Removes adhesive residues, oil-carbon deposits, resins, tar and gummy lubricant residues from a variety of materials e.g. metal, wood, ceramics, glass, polyethylene and polypropylene. Not suitable for use of PVC, sensitive plastics, synthetics, linoleum and plastic tiles.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosols  
**Item No.** 170161VAR

Description	Aerosol
Colour	white
Scent	orange



## VARYBOND® VB 82

Biodegradable degreaser

All-purpose cleaner degreaser for industry and trade. Used on all areas and components that can be flushed with water. Ideal for cleaning machinery, equipment, engines, vehicles, tools, garage floors, oil separator or, fork lifts. The product is biodegradable, solvent-free and non-flammable.

**Units / Carton** 12 Sprays (600 ml)  
 4 Canisters (5 l)  
 1 Canister (25 l)  
**Item No.** 600 ml 182181VAR  
 5 l 182854VAR  
 25 l 182860VAR

Description	Pump spray or canister
Colour	turquoise
Flash point	none



## VARYBOND® Spraygun

The Cramolin / Varybond Spraygun transforms your regular Spraycan into a highly effective spray system. Suitable for all kinds of spray cans with a standardized spray head. This unique tool enables your aim – no more overspray, no more dirt fingertips. Outstanding hygienic standards for all kinds of NSF-applications and food areas.

**Units / Carton** 10 Pieces  
**Item No.** VAR SG1

Colour	black
Material	plastic
Suitable for	standard 200 ml up to 500 ml Spraycans



Other sizes available on request

# Special purpose lubricants



## VARYBOND® VB 12

Silicone-spray

General purpose lubricant, especially for the use with non-metallic material pairs. Excellent gliding properties for use as a cablegliss during wiring installation. Also used as a release and separating agent in plastics manufacture, and as a non adhesive electrical insulator.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 778161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to 200° C



## VARYBOND® VB 13

Dry-Lubricant – PTFE

Used in areas where oil- and grease-free lubrication is required. Used in electrical engineering as a cable placing lubricant and as a dry lubricant on electromechanical components. Excellent as a release and separating agent in plastics manufacture. Product base is 100% pure PTFE

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 113161VAR

Description	Aerosol
Colour	white
Temperature range	up to 260° C



## VARYBOND® VB 16

Multi-protection-spray

General purpose formula protects and lubricates in multiple applications from industry to workshop. Suitable for use on all metals and alloys. Displaces water, prevents corrosion and oxidation, dissolves rust and lubricates moving parts. Cleans and stops squeaks, starts wet engines, and ensures long-lasting operational reliability. Particularly useful on precision instruments, tools, knuckles, articulated joints and in across-the board automotive applications.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 116161VAR

Description	Aerosol
Colour	yellowish
Temperature range	-70° C to +230° C



## Special purpose lubricants

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### VARYBOND® VB 71

Penetrating-oil

Removes rust and protects against future rust formation. Loosens frozen threads on nuts, bolts and shackles. Restores easy movement to knuckles, levers all types of articulated joints and linkages.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 171161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to 250° C



### VARYBOND® VB 89

Grease spray

Dependable and permanent lubrication for ball bearings and roller bearings, fast running chains, chain sprockets, as well as open gear transmissions and worm gears. Extremely suitable for restoring easy movement to all types of chains and steel cables. The product is biodegradable and salt water resistant.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 189161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to approx. 200° C



### VARYBOND® VB 90

Chain & cable spray – with MoS<sub>2</sub>

For permanent and dependable lubrication of all types of chains and steel cables. The highly viscous, high adhesion lubricating film penetrates into the tightest fits. The product is also ideal for application on ball bearings, roller bearings, open gear transmissions, worm gears and all types of knuckles and articulated joints.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 190161VAR

Description	Aerosol
Colour	dark grey
Temperature range	-20° C to +160° C

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## Special purpose lubricants



### VARYBOND® VB 76

Belt dressing spray

Dedicated product with excellent suitability for conditioning all flat, V-profile, or round drive belts. Prevents premature belt failure. Improves traction and extends service life of belt materials including leather, fabric or rubber.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 176161VAR

Description	Aerosol
Colour	amber
Temperature range	up to 200° C



### VARYBOND® VB 67

Leak detector spray

Spray-on leak detector for all threaded pipe joints, taps, valves, slide gates, gas bottles and connections. Suitable for all pressurized gases. Non-aggressive on materials. Product is approved by the DVGW.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 167161VAR

Description	Aerosol
Colour	transparent, clear
Temperature range	n / a



### VARYBOND® VB 69

Anti-spatter spray

Flammable aerosol without silicone for protecting welding nozzles of automatic and semiautomatic MIG and TIG welders against clinging arc spatter from the welding electrode. Eases the removal of slag and beads from workpieces.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 169161VAR

Description	Aerosol
Colour	off-white, opaque
Temperature range	n / a



### VARYBOND® VB 92

Spray adhesive

Especially formulated for large area bonding of fabrics, sponge rubber or latex foam, leather, cardboard, automotive roof liners and leatherette, sound or thermal insulation (except styrene) and rubber, bare or painted metal, as well as on wood substrates.

**Packaging size** 400 ml  
**Units / Carton** 12 Aerosol  
**Item No.** 192161VAR

Description	Aerosol
Colour	yellowish
Temperature range	up to 80° C





## VARYBOND® High Temperature Stainless

Filler: stainless steel particles. Particularly suitable for high temperature applications and those prohibiting the presence of nickel. Used on pipe fittings and flanges in steam and hot-water installations, automotive exhaust systems and pumps. The product is highly resistant to chemicals. Meets: MIL-A-907

<b>Packaging size</b>	<b>250 g / 500 g / 1 kg / 5 kg / 400 ml Aerosol</b>
<b>Units / Carton</b>	<b>12 Brush tops (250 g), 12 Tins (500 g / 1 kg) 4 Tins (5 kg), 12 Aerosol (400 ml)</b>
<b>Item-No.</b>	<b>250 g VAR HTSS 250    500 g VAR HTSS 500 1 kg VAR HTSS 1    5 kg VAR HTSS 5 400 ml VAR HTSS 400</b>

Appearance	silver-grey paste
Filler	Stainless steel
Particle size	< 50 µm
Coefficient of friction	0.08
NLGI Consistency	Class 1
Temperature range	-180° C to +1310° C



## VARYBOND® Bearing Lubricant

Excellent lubricant for fast and slow-running antifriction bearings. Because the special polyurea thickener adds structural stability, Red Bearing Lubricant has a decidedly longer service life than commercial lubricants and is especially indicated for applications requiring long-term lubrication. Meets General Motors Specifications.

<b>Packaging size</b>	<b>400 g</b>
<b>Units / Carton</b>	<b>12 Tins (400 g) 12 Cartridges (400 g)</b>
<b>Item No.</b>	<b>400 g NS VSR 140 (Tin) 400 g NS VSRC 1 (Cartridge)</b>

Appearance	beige paste
Particle size	n / a
Thickener	Polyurea
NLGI Consistency	Class 1 - 2
Dropping point	250° C
Temperature range	-25° C to +170° C



## VARYBOND® High Temp. Bearing Lubricant

High temperature grease which does not have a dropping point and is specially formulated for use in roller bearings in incinerators, hardening furnaces and flue gas desulfurization plants. Meets General Motors Specifications.

<b>Packaging size</b>	<b>200 / 400 g</b>
<b>Units / Carton</b>	<b>12 Brush tops (200 g) 12 Cartridges (400 g)</b>
<b>Item No.</b>	<b>200 g NS NHT 7BT 400 g NS NHTC 14</b>

Appearance	black paste
Particle size	1 µm
Thickener	Graphite
NLGI Consistency	Class 2
Dropping point	none
Temperature range	-9° C to +538° C



## VARYBOND® White Ceramic Paste

This metal and graphite-free assembly paste ensures easy removal of treated parts even after years of service. Ideally suited for threaded connections on components and fits subjected to high thermal loads. Prevents seizing, baking or galling (e.g., on stainless steel), as well as stick-slip motion at low traversing or feed speeds. The product is highly resistant against chemicals.

<b>Packaging size</b>	<b>250 g / 500 g / 1 kg</b>
<b>Units / Carton</b>	<b>12 Flat tops (250 g) 12 Brush tops (500 g)</b>
<b>Item No.</b>	<b>250 g VBK 25 500 g VBK 50 1 kg VBK 100</b>

Appearance	white paste
Base oil / Filler	Ceramic
Particle size	< 40 µm
NLGI Consistency	Class 2 - 3
Temperature range	-40° C to +1400° C

Anti-Seize Compounds



## VARYBOND® Regular Grade – Tube

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

<b>Packaging size</b>	<b>100 g</b>
<b>Units / Carton</b>	<b>24 Tubes</b>
<b>Item No.</b>	<b>VAR RG 100</b>

Appearance	red / silvery paste
Filler	Copper / Aluminum
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

**Meets:**  
Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



## VARYBOND® Regular Grade – Brush top

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

<b>Packaging size</b>	<b>250 g</b>
<b>Units / Carton</b>	<b>12 Brush tops</b>
<b>Item No.</b>	<b>VAR RG 250</b>

Appearance	red / silvery paste
Filler	Copper / Aluminum
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

**Meets:**  
Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



## VARYBOND® Regular Grade – Tins

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

<b>Packaging size</b>	<b>500 g / 1 kg</b>
<b>Units / Carton</b>	<b>12 Tins (500 g), 12 Tins (1 kg)</b>
<b>Item No.</b>	<b>500g VAR RG 500 1 kg VAR RG 1</b>

Appearance	red / silvery paste
Filler	Copper / Aluminum
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

**Meets:**  
Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



## VARYBOND® Regular Grade – Spray

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

<b>Packaging size</b>	<b>400 ml Aerosol</b>
<b>Units / Carton</b>	<b>12 Sprays</b>
<b>Item No.</b>	<b>VAR RG 400</b>

Appearance	red / silvery paste
Filler	Copper / Aluminum
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

**Meets:**  
Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2





## VARYBOND® Regular Grade – Tin

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

<b>Packaging size</b>	<b>5 kg / 20 kg</b>
<b>Units / Carton</b>	<b>4 Tins (5 kg) 1 Tin (20 kg)</b>
<b>Item No.</b>	<b>5 kg VAR RG 5 20 kg VAR RG 20</b>

Appearance	red / silvery paste
Filler	Copper / Aluminum
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:  
Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 T2, BMW 83 23 9 407 830, VW G052560A2



Cleaner

Contactclean

CD Cleaner

Isopropanol

## Universal cleaner for electronics

The effect of CLEANER is based on very high quality, effective and specially mixed solvents. CLEANER evaporates quickly and leaves no residue behind. CLEANER can be used universally thanks to its special formulation of ingredients.

<b>Packaging size</b>	<b>200 ml, 400 ml</b>
<b>Units / Carton</b>	<b>12 Aerosols</b>
<b>Item No.</b>	<b>200 ml 1021411 400 ml 1021611</b>

Colour	transparent, clear
Scent	Alcohol
Density	0.67 g / cm <sup>3</sup>
Evaporation	rapid
Residue	none
Compatibility with plastic	good
Surface tension	22 mN / m



## Highly effective, oxide and sulphide dissolving contact cleaner

CONTACTCLEAN effectively eliminates oxide and sulphide layers from all kinds of metal surfaces. At the same time our special ingredients provide a lasting lubrication and corrosion protection. Contact resistances which result in failures are reduced as well as voltage drops. Preservation of the perfect operational reliability of all electronic contacts.

<b>Packaging size</b>	<b>200 ml, 400 ml</b>
<b>Units / Carton</b>	<b>12 Aerosols</b>
<b>Item No.</b>	<b>200 ml 1011411 400 ml 1011611</b>

Colour	reddish
Scent	characteristic
Density	0.73 g / cm <sup>3</sup>
Reduction of the contact resistance	< 2 mΩ
Temperature resistance	up to + 80° C



## Cleaning of DVDs, CDs and CD drives.

DISC CLEANER is a mild cleaner for the reliable removal of finger marks, nicotine and dirt. Because of its character it also removes grease and oil as well as layers of dirt reliably. For optimum digital reproduction both the laser head and the CD / DVD or Blu-ray disc have to be cleaned. Thanks to its low surface tension and perfect solvent combination, penetrates DISC CLEANER deeply into the dirt, dissolves it and restores the reproduction for a perfect digital sound.

<b>Packaging size</b>	<b>200 ml</b>
<b>Units / Carton</b>	<b>12 Aerosols</b>
<b>Item No.</b>	<b>1421411</b>

Colour	transparent, clear
Scent	Alcohol
Density	0.79 g / cm <sup>3</sup>
Evaporation	rapid
Residue	none
Compatibility with materials	very good
Purity	99.9 %



## Mild, universal cleaner with a purity of > 99.9%

ISOPROPANOL is a mild, universally applicable cleaner for the reliable removal of dirt and grease. Because of its character it removes both, grease and oil as well as ionic contamination. It does not attack most common materials and evaporates totally without leaving any residue within a very short time.

<b>Packaging size</b>	<b>200 ml, 400 ml, 1 l</b>
<b>Units / Carton</b>	<b>12 Aerosols 200 ml, 400 ml, 12 Cans 1 l</b>
<b>Item No.</b>	<b>200 ml 4021411 400 ml 4021611 1 l 402841</b>

Colour	transparent, clear
Scent	Alcohol
Density	0.78 g / cm <sup>3</sup>
Evaporation	rapid, complete
Residue	none
Compatibility with materials	very good
Purity	> 99.9 %





## Cleaners



### Special cleaner for entertainment electronics

TUNER cleans effectively, reliably and without harming electrical devices and modules. Residues such as dust, greasy dirt, nicotine can be removed without effecting the electrical capacitance and frequency values. Due to the low surface tension the solvents penetrate deeply into the surfaces. TUNER dries rapidly and leaves no residue behind.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item No.	1041411

Colour	transparent, clear
Scent	characteristic fresh
Density	0.67 g / cm <sup>3</sup>
Evaporation	rapid
Residue	none
Surface tension	19 mN / m
Compatibility with plastic	very good



### Spraywash for cleaning soiled contacts and components

SPRAYWASH consists of a highly effective combination of solvents for the effective removal of coats of dirt or grease and oxidized layers. Good creep and flow properties lead to dirt being washed away easily when used properly. SPRAYWASH does not attack most common materials and evaporates quickly without leaving any residue.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item No.	400 ml 1051611

Colour	transparent, clear
Scent	Alcohol
Density	0.75 g / cm <sup>3</sup>
Evaporation	medium
Residue	none
Compatibility with plastic	good



### Very effective cleaner, removes grease and oil

The special mixture of solvents in DEGREASER guarantees a fast and reliable removal of grease and oil. The product works equally and effectively against wax and other heavy contamination. DEGREASER also is moisture- / water repellent.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosols
Item No.	200 ml 1061411 400 ml 1061611

Colour	transparent, clear
Scent	solvent
Density	0.83 g / cm <sup>3</sup>
Evaporation	medium
Residue	none
Compatibility with materials	good



### Efficiently removes soldering residues from printed circuit boards

FLUX-OFF is a mild but effective cleaner which removes even stubborn solder flux residues without any problems. It makes no difference whether the flux is rosin based or water-soluble. FLUX-OFF is transparent and leaves no residue behind. It does not attack the most common materials. However, you should avoid using it on PVC and polystyrene. Also available with a brush for intensive cleaning.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item No.	1071611

Colour	transparent, clear
Scent	mild
Density	0.84 g / cm <sup>3</sup>
Evaporation	residue-free
Compatibility with materials	very good
Surface tension	22 mN / m

Top-Pin



### Protection for ensuring the function of plug contacts

TOP-PIN is the protection agent and lubricant for ensuring the function of all contacts, especially precious metal-plated plug contacts. It offers good lubricating and corrosion protection properties based on synthetic active ingredients. Damage to precious metal layers is prevented; there is no corrosion of non-precious base metals. The protective film of TOP-PIN has a lubricating effect, is very thin and resistant to heat.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item No.	1101411

Colour	yellowish
Scent	solvent
Density	0.67 g / cm <sup>3</sup>
Temperature-resistance (film)	up to 300° C
Corrosion protection	4 cycles (DIN IEC 68)
Lubricity under pressure	very good

Silicone



### Viscous, highly effective insulating and lubricating oil

SILICONE is a high quality, viscous insulating oil with a dielectric strength of 12 kV / mm. It does not dry out, is water-repellent and therefore suitable as a moisture barrier. SILICONE is also a good universal lubricant. It is resistant within a wide temperature range of -50° C up to +200° C, does not attack the most common engineering materials.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item No.	1121611

Colour	transparent, clear
Scent	typical mild
Density	0.97 g / cm <sup>3</sup>
Viscosity (oil)	1000 mm <sup>2</sup> / s (25° C)
Temperature resistance	-50° C to +200° C
Dielectric strength (oil)	12 kV / mm (20° C)
Compatibility with materials	very good

SprayOil



### Multifunctional lubricating oil and corrosion protection

SPRAYOIL is a highly effective, low viscosity, acid free lubricant showing very good emergency running properties. The lubricating film is resistant and does not become gummy. It also has a water and moisture repellent effect and therefore gives lasting and reliable corrosion protection. SPRAYOIL is effective within a wide temperature range of -40° C to +170° C. Meets the requirements of standard ISO VG 10.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item No.	1111411

Colour	yellowish
Scent	typical mild
Density	0.78 g / cm <sup>3</sup>
Viscosity (oil)	10 mm <sup>2</sup> / s (40° C)
Pour point	-57° C (DIN ISO 3016)
Compatibility with materials	good
Temperature resistance	-40° C to +170° C

SprayFlon



### Grease-free, PTFE-based lubricant and mold release agent

SPRAYFLON is a highly effective dry lubricant on PTFE basis. It offers a low friction coefficient and has anti-adhesive properties on plastic, glass, metal, wood or other materials. SPRAYFLON is resistant within a wide temperature range of -100° C up to +250° C, stable against chemicals, electrically insulating and enables clean working.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item No.	1131411

Colour	whitish
Scent	solvent
Density	0.72 g / cm <sup>3</sup>
Compatibility with materials	very good
Temperature resistance	up to 250° C





## Effective lubricant, good corrosion protection

VASELINE consists of a high purity, white vaseline which can be applied easily in the available spray form. It is totally acid-free and therefore guarantees an effective corrosion protection. It also offers excellent lubricating properties which can be used universally. VASELINE is chemically neutral towards all materials.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item No.	1141411

Colour	white
Scent	solvent
Density	0.73 g / cm <sup>3</sup>
Compatibility with materials	very good
Compatibility with skin	very good (DAB 10)
Solidification point	approx. +53° C (DIN ISO 2207)



## Lubricant and corrosion protection for contacts

PROTECTION contains a combination of active ingredients for lasting prevention of wear and corrosion on metal contact surfaces. The treated parts are coated with a stable, micro fine film which ensures good lubricant and corrosion protection properties. PROTECTION is suitable for all contact metals and does not attack the most common engineering materials.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item No.	1151611

Colour	bluish
Scent	Alcohol
Density	0.73 g / cm <sup>3</sup>
Compatibility with materials	very good
Surface resistance	max. 1 mΩ
after treatment	
Viscosity	67.4 mm <sup>2</sup> / s
Pour point	-9° C



## Lubricant for pulling in cables and wires

KABELGLIDE is a high-grade lubricant for pulling cables and wires easily through electric installation tubes. The 70 cm long, flexible extension tube delivered with KABELGLIDE is simply fixed to the spray nozzle and guarantees easy spraying of the inside walls of installation tubes. KABELGLIDE does not dry out, is water-repellent and therefore suitable as a moisture buffer. It is resistant within a wide temperature range of -50° C up to +200° C, does not attack plastics and construction materials.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item No.	1511611

Colour	transparent, clear
Density	0.97 g / cm <sup>3</sup>
Viscosity (oil)	1000 mm <sup>2</sup> / s (40° C)
Temperature range	-50° C to +200° C
Dielectric strength	12 kV / mm
Compatibility with materials	very good



## Highly effective, active corrosion protection oil

ANTIKORR combats moisture, repels water and protects against corrosion even under the harshest environmental conditions. Due to the low surface tension and excellent creep properties, ANTIKORR also reaches places of difficult access and penetrates into the finest surface pores and gaps. The remaining film is practically invisible and does not need to be removed in most cases for further processing of the parts (except lacquering).

Packaging size	400 ml, 5 l, 20 l
Units / Carton	12 Aerosols 400 ml, 4 Canisters 5 l, 1 Canister 20 l
Item No.	400 ml 1631611
	5 l 163854
	20 l 163860

Colour	blue-green
Density	0.80 g / cm <sup>3</sup>
Viscosity	3 mm <sup>2</sup> / s (20° C)
Temperature resistance	up to 150° C
Lubricity	up to 790 kg

Complies with mil. spec.:  
C-81309E, C-372C, AA-50493, 0-W-12848

Plastik



## Clear lacquer for insulating and sealing

PLASTIK contains a high quality acrylic resin lacquer. It coats surfaces with a protective film which is resistant to acids, alkalis, alcohols, moisture and adverse environmental influences. The lacquer adheres to metal, plastic, wood, cardboard, glass, etc. It does not drip and permits soldering through its own layer. PLASTIK contains a UV indicator for quality control.

Packaging size	400 ml, 1 l, 5 l, 20 l
Units / Carton	12 Aerosols 400 ml, 12 Cans 1 l, 4 Canisters 5 l, 1 Canister 20 l, 1 Barrel 200 l
Item No.	1201611 (400 ml), 120841 (1 l) 120854 (5 l), 120860 (20 l), 1208701 (200 l)

Colour	transparent
Scent	solvent
Density	0.88 g / cm <sup>3</sup>
Surface resistance	5 x 10 <sup>14</sup> Ω
Contact resistance	10 <sup>14</sup> Ω / cm
Dielectric strength	21 kV / mm
Leakage current strength (CTI)	> 600 Ω
Temperature resistance	-70° C to +120° C
	Class E acc. to VDE 0360

Meets MIL-I-460580 „Type Acrylic Resin“

Urethane Clear



## Special resistant protective and insulating lacquer

URETHANE CLEAR is a single component urethane lacquer for electronics. It offers high surface and contact resistances, good dielectric strength, low dielectric constant and loss factors. Resistant to moisture, dilute acids and alkalis, solvents and fungus attack. The film is elastic, wear and adhesion resistant, heavy duty and permits soldering through its own layer.

Packaging size	400 ml, 1 l, 5 l
Units / Carton	12 Aerosol 400 ml, 12 Cans 1 l, 4 Canisters 5 l
Item No.	400 ml 1211611
	1 l 121841
	5 l 121854

Colour	slightly yellowish
Density	0.80 g / cm <sup>3</sup>
Surface resistance	2.5 x 10 <sup>12</sup> Ω
Contact resistance	5.1 x 10 <sup>14</sup> Ω
Dielectric strength	82.9 kV / mm
Temperature range	-40° C to +130° C
	Class B to VDE 0360

Isotemp



## Very temperature resistant silicone insulating lacquer

ISOTEMP is a heat, moisture and water resistant insulating lacquer. It retains its effect even at temperatures up to 500° C. It is also flame retardant, highly adhesive and elastic. ISOTEMP is suitable for moisture sealing and for impregnation. The lacquer works well at room temperature and takes rapid effect.

Packaging size	200 ml, 1 l
Units / Carton	12 Aerosol 200 ml, 12 Cans 1 l
Item No.	200 ml 1221411
	1 l 122841

Colour	yellowish, slightly turbid
Density (Film)	0.80 g / cm <sup>3</sup>
Dielectric strength	110 kV / mm
Temperature resistance	-45° C to +500° C
Contact resistance	7.5 x 10 <sup>14</sup> Ω / cm

Emilac



## Effective shielding of electromagnetic influences

EMILAC is a highly conductive coating based on silver plated copper particles for shielding against electromagnetic waves. Protects against electromagnetic interferences (EMI) and electrostatic discharges (ESE). EMILAC is easy to apply and has a high stability, even under adverse environmental conditions such as heat and moisture. It covers well, does not attack any materials and dries quickly.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item No.	1241411

Colour	copper
Density	0.60 g / cm <sup>3</sup>
Surface resistance	< 0.25 Ω / mm <sup>2</sup>
	at 50 μm coat thickness
Damping	60 – 65 dB at 50 μm
	according to ASTM ES 7-83
Operating temperature	-40° C to +95° C
Drying time	dust dry after 10 minutes



## Lacquers



### Photocopy lacquer for making printed circuits

POSITIV RESIST is a light-sensitive coating for transfer ring lines, shapes and contours. The accurate copying of image elements on different materials is possible by a relatively simple technique. POSITIV RESIST ensures easy work, quick drying, good contrast and high sharpness.

<b>Packaging size</b>	200 ml, 1 l
<b>Units / Carton</b>	12 Aerosol 200 ml, 12 Cans 1 l sprayable / flingable
<b>Item No.</b>	200 ml 1261411 1 l 1268415P 1 l 1268415C

Colour	dark violet
Density	0.85 g / cm <sup>3</sup>
Dry time	30 – 60 minutes (20° C)
Light sensitivity	between 310 and 440 nm max. between 330 and 420 nm



### Graphite-based lubricant lacquer

GRAPHITE is an easy to use lubricating lacquer based on colloidal graphite for producing good adhesive, conductive layers. GRAPHITE adheres very well to smooth surfaces such as glass and plastic. Layers of GRAPHITE are temperature- resistant up to 300°C. The resistance is 1.000 to 2.000 Ω depending on the layer thickness.

<b>Packaging size</b>	200 ml
<b>Units / Carton</b>	12 Aerosol
<b>Item No.</b>	1281411

Colour	black-grey
Density	0.88 g / cm <sup>3</sup>
Dry time	24 hours (completely dry)
Surface resistance	1.000 to 2.000 Ω
Operating temperature	-40° C to +300° C



### Spraygun

The Cramolin / Varybond Spraygun transforms your regular Spraycan into a highly effective spray system. Suitable for all kinds of spray cans with a standardized spray head. This unique tool enables your aim – no more overspray, no more dirt fingertips. Outstanding hygienic standards for all kinds of NSF-applications and food areas.

<b>Units / Carton</b>	10 Pieces
<b>Item No.</b>	VAR SG1

Colour	black
Material	Plastic
Suitable for	Standard 200ml up to 500ml Spraycans



Freezer Top



### For thermal fault diagnosis, cooling down to -50° C – non-flammable

FREEZER-TOP guarantees quick and reliable cooling down to -50° C, does not burn, evaporates immediately and leaves no residue. FREEZER-TOP is compatible with all materials, the proven and reliable source of freezing for all areas of application.

<b>Packaging size</b>	200 ml, 400 ml
<b>Units / Carton</b>	12 Aerosol
<b>Item No.</b>	200 ml 1301411 400 ml 1301611

Scent	scentless
Density	1.20 g / cm <sup>3</sup>
Evaporation	complete
Achievable temperature	at least -50° C
Flashpoint	non-flammable

Freezer BR



### For thermal fault diagnosis, cooling down to -50° C

FREEZER-BR guarantees quick, reliable cooling down to -50° C, evaporates immediately and without leaving any residue. FREEZER-BR is compatible with all materials, the low cost source of freezing for standard applications.

<b>Packaging size</b>	200 ml, 400 ml
<b>Units / Carton</b>	12 Aerosol
<b>Item No.</b>	200 ml 1461411 400 ml 1461611

Scent	scentless
Density	0.54 g / cm <sup>3</sup>
Evaporation	complete
Achievable temperature	at least -50° C
Flashpoint	< 0° C

Booster



### Extra-strong aerosol for very stubborn dirt – non-flammable

BOOSTER is an extra strong, non-flammable pressurised gas for professional use wherever stubborn dusty contamination has to be removed reliably, thoroughly and safely. The unique technology ensures that the resulting pressure is four times that of normal compressed air sprays.

<b>Packaging size</b>	500 g
<b>Units / Carton</b>	12 Aerosol
<b>Item No.</b>	1481711

Scent	scentless
Density	1.20 g / cm <sup>3</sup>
Evaporation	complete
Pressure	5.3 bar (+20° C)
Flashpoint	non-flammable

Duster Top



### For cleaning places of difficult access – non-flammable

DUSTER-TOP is microscopically clean, moisture free, non-flammable and developed for application where extremely pure cleaning is required. The powerful jet action instantly removes particles from the most inaccessible areas, leaves no residue and is harmless to all materials.

<b>Packaging size</b>	200 ml, 400 ml
<b>Units / Carton</b>	12 Aerosol
<b>Item No.</b>	200 ml 1311411 400 ml 1311611

Scent	scentless
Density	1.20 g / cm <sup>3</sup>
Pressure	4.8 bar (+20° C)
Flashpoint	non-flammable
Evaporation	complete



## Special sprays



### For cleaning places of difficult access

DUSTER-BR is microscopically clean, moisture free, flammable and developed for application where extremely pure cleaning is required. The powerful jet action instantly removes particles from the most inaccessible areas, leaves no residue and is harmless to all materials.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item No.	200 ml 1471411 400 ml 1471611

Scent	scentless
Density	0.55 g / cm <sup>3</sup>
Pressure	4.8 bar (+20° C)
Flashpoint	< 0° C
Evaporation	complete



### Foam cleaner for screens with antistatic effect

SCREEN contains dissolving substances to remove dirt and greasy films from glass, plastics, ceramics and metals. The additional antistatic effect noticeably prevents new soiling. SCREEN cleans gently and is safe to use. It will not smear, stain, scratch, streak or abrade.

Packaging size	400 ml
Units / Carton	12 Aerosol
Item No.	1321611

Colour	white foam
Foam stability	very good
Compatibility with materials	Glass, metal, hardened lacquers unlimited good, plastics such as acrylic glass, polycarbonate, ABS, PVC, polyamide



### Foam cleaner for plasma and LCD screens with antistatic effect

SCREEN TFT is especially suitable for gentle but effective cleaning of modern flat screens. The stable cleaning foam does not run off, even on vertical surfaces and removes even stubborn, greasy layers of dirt without smearing and without harming screen surfaces. SCREEN TFT is alcohol free and therefore indispensable in the office and at home.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item No.	1431411

Colour	white foam
Foam stability	very good
Compatibility with materials	Glass, metal, hardened lacquers unlimited good, plastics such as acrylic glass, polycarbonate, ABS, PVC, polyamide



### Neutralizes and eliminates static electricity

ANTISTATIC effectively prevents electrostatic charges on plastics and textiles. It forms an invisible, ultra-fine film after spraying, which does not affect or harm the surface when used properly. ANTISTATIC provides highly effective, surface-active ingredients which have been developed and tested according to physical-chemical standards. ANTISTATIC considerably reduces the surface resistance.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item No.	1331411

Colour	transparent, clear
Scent	fresh
Density	0.59 g / cm <sup>3</sup>
Compatibility with materials	very good
Temperature resistance	-50° C to +220° C
Thermal stability	extremely high

## Special sprays



### Removes adhesive labels easily and reliably

LABEL-OFF makes it easy to remove adhesive paper labels. The active ingredient penetrates the paper and neutralises the adhesive force of the glue. The residue adhesive can easily be wiped off with a cloth or piece of paper. Do not use on polystyrene or polyamide. It is recommended to test the effect on a small, invisible area if in doubt.

Units / Carton	12 Aerosol 200 ml, 400 ml, 12 Cans 1 l, 4 Canisters 5 l
Item No.	1341411 (200 ml), 1341611 (400 ml) 134841 (1 l), 134854 (5 l)

Colour	transparent, clear
Scent	orange
Density	0.69 g / cm <sup>3</sup>
Evaporation speed	medium
Compatibility with materials	good (except for polystyrene, polyamide)



### Easily removes ink, paper and toner residue

PRINTER contains an optimal mixture of solvents for removing ink and toner residues from inkjet and laser printers. Paper dust can be cleaned equally effectively from printer feed rollers. Annoying problems with the paper feed are eliminated. The antistatic effect delays resoiling. PRINTER does not attack the most common materials and evaporates without leaving any residue.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item No.	1361411

Colour	transparent, clear
Scent	perfume
Density	0.69 g / cm <sup>3</sup>
Evaporation speed	rapid
Cleaning	very good (with grease, ink, toner and paper residue)
Compatibility with materials	good



### Silicone-free solution for separating rubber and plastic parts

MOLD RELEASE AGENT 99 is a silicone-free mold release agent based on polyethylene glycol for forming plastics and rubber. It covers the entire mold and gives the rubber and plastic parts an attractive surface appearance. MOLD RELEASE AGENT 99 also serves for moisture and as a release agent for the often difficult forming of foam rubber parts. It does not attack rubber and plastics and is not harmful or irritant.

Packaging size	10 l
Units / Carton	1 Canister 10 l
Item No.	801880

Colour	transparent, clear
Scent	characteristic
Density	0.89 g / cm <sup>3</sup>
Viscosity	low viscous
Flash point	approx. 13° C
Properties	silicone-free



### SDT-Spray

SDT-SPRAY is ideal for professional testing of optical and photo-electric Smoke Detectors without using any additional test equipment. One Spraycan lasts for up to 200 applications.

SDT-SPRAY is an Aerosol / Atomised Spray and not „Smoke in a can“.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item-No.	1391411

Colour	transparent, clear
Scent	fresh
Evaporation	fast and complete
Density	0.59 g / cm <sup>3</sup>
Compatibility with materials	very good
Recomm. no. of testings	2 times per year



# Play it safe

Order now our all new  
Smoke-Detector-Test-Spray.

Confidence is good, control is better!

Available  
now!



The Installation of Smoke Detectors does not guarantee a durable failure-free operation. Therefore it is necessary to inspect your Smoke Detectors minimum once a year; a proper function as well as if they are installed far enough to furnishings and walls is essential.

Cramolin® SDT-Spray evaporates quickly without leaving any residues and has a very good material compatibility. One Spraycan lasts for up to 200 applications.

**Only suitable for checking the operation of optical and photoelectric Smoke Detectors. SDT-Spray is an Aerosol / atomized Spray and not "Smoke in a can".**



**CRAMOLIN**   
LÖSUNG PER KNOPFD RUCK

## Hand cleaner towels

### SCRUBS® IN-A-BUCKET®

72 towels



Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 72 Towels / Pail  
Units / Carton 6 Pails  
Item No. DY42272

Description	moistened towels
Colour	blue
Towel size	27 x 31 cm
Scent	orange

Licensed under U.S. Patent No's:  
5.683.971; 4.853.281; 4.833.003; 4.775.582

### SCRUBS® IN-A-BUCKET®

30 towels



Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 30 Towels / Container  
Units / Carton 6 Containers  
Item No. DY42230

Description	moistened towels
Colour	blue
Towel size	27 x 31 cm
Scent	orange

Licensed under U.S. Patent No's:  
5.683.971; 4.853.281; 4.833.003; 4.775.582

### SCRUBS® IN-A-BUCKET®

15 towels



Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 15 Towels / Container  
Units / Carton 12 Containers  
Item No. DY42215

Description	moistened towels
Colour	blue
Towel size	19,5 x 20 cm
Scent	orange

Licensed under U.S. Patent No's:  
5.683.971; 4.853.281; 4.833.003; 4.775.582

### SCRUBS® IN-A-BUCKET®

1 towel



Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 1 Towel / Single pack  
Units / Carton 100 Single packs  
Item No. DY42201

Description	moistened towels
Colour	blue
Towel size	21 x 30 cm
Scent	orange

Licensed under U.S. Patent No's:  
5.683.971; 4.853.281; 4.833.003; 4.775.582



# Simple the roughest Simply the fastest

The ultrastrong hand cleaner towel  
for maintenance, repair and overhaul

**No Water!  
No Soap!  
No Problem!**



## REMOVES

Heavy grease • Lubricants • Adhesives • Oils • Tar • Bitumen • Inks • Grime  
Paints • Wax • Coal dust • Graphite • Grass stains • and many more ...

# SCRUBS®

## Cleaner towels

### Stainless steel cleaner towel

Stainless steel cleaner towels clean, polish, brighten and protect all in one step. This powerful formula prevents water marks and corrosion and preserves the high luster of stainless steel. They are ideal for bathrooms, drinking fountains, elevators, kitchens and more.

Packaging size 30 Towels / Container  
1 Towel / Single pack  
Units / Carton 6 Containers  
100 Single packs  
Item No. DY91930 (Container)  
DY91901 (Sachets)

Description	moistened towels
Colour	orange
Towel size	21 x 30 cm (single pack) 27 x 31 cm (30pc container)

### Graffiti and paint remover towel

Graffiti and paint remover towels combine a high quality graffiti remover formula with an absorbent, abrasive, non-scratching towel. This product will loosen and remove graffiti and spray paint, allowing the towel to absorb and hold residue without redepositing paint on surface.

Packaging size 30 Towels / Container  
1 Towel / Single pack  
Units / Carton 6 Containers  
100 Single packs  
Item No. DY90130 (Container)  
DY90101 (Sachets)

Description	moistened towels
Colour	grey
Towel size	21 x 30 cm (single pack) 27 x 31 cm (30pc container)

### PERMATEX® FAST ORANGE®

Hand cleaner

Permatex® Fast Orange® is a natural, biodegradable hand cleaner. Fast Orange® has an enjoyable fresh scent of oranges and is free of any artificial fragrances. Fast Orange® contains crushed particles of pumice for a more efficient hand cleaning. Moreover contains Fast Orange® aloe vera, jojoba oil and lanolin (wool fat) for a good care of irritated or dry skin.

Units / Carton 12 Bottles (443 ml)  
4 Pump Bottles (3,8 l)  
Item No. 443 ml DY89122  
3,8 l DY89011

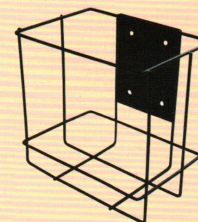
Appearance	white, viscous lotion
Scent	orange
pH-value	7.0 (pH-balanced)
Ingredients for skin care	aloe vera, jojoba, oil, lanolin (wool fat)

### PERMATEX® FAST ORANGE®

Wall bracket for 3,8L pump bottle

Wall bracket suitable for 3,8L pump bottle Fast Orange

Units / Carton 1 Piece  
Item No. DY89001



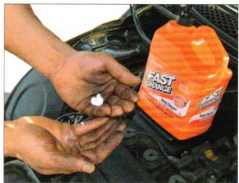


# FAST ORANGE®



## Quick and easy cleaning

**FAST ORANGE®** removes quickly stubborn dirt. No water is needed, **FAST ORANGE®** can be used anywhere and anytime e.g. in workshops or outdoors.



**APPLICATION**  
Fast Orange® Handcleaner



**RUBBING**  
for removing dirt



**WHIPPING**  
with a cloth

# EASYLINE® EDGE

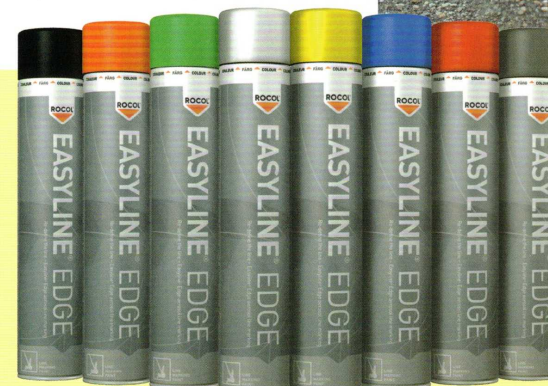


The world's only disposable line marking system, ideal for marking small areas such as car parking spaces (for up to 15 cars), tennis courts and restricted access areas. Quick and simple to use, touch dry in 10 minutes and no cleaning after use.

The EASYLINE® Universal Applicator excels in external environments where markings are required on surfaces that are particularly uneven, rough or potholed.

The new and worldwide patented airflow system ensures crisp clear lines. By using a unique nozzle- and swirling technique during application the drop formation is nearly excluded. The colours themselves are resistant against sunlight, weather and abrasion. Therefore the Easyline Edge® System sets new standards in quality at quite attractive prices. These advantages are also on your line.

Sharp lines; rarely no drop formation during application and an application which is nearly not polluted during usage. Also the handle of the applicator can be adjusted for easier work and the total applicator can be disassembled – for safe storing and easy transportation.



### All-inclusive box

Supplied in a heavy duty case.







## Aerosol colours EASYLINE® EDGE

- Caution / Hazard
- General Marking
- Danger / Prohibition
- Information / Direction
- Mandatory / Protection
- Chemical storage
- Delete existing lines
- Delete existing lines
- Flourescent yellow



## Aerosol colours EASYLINE® EDGE



Packaging size	750 ml	
Units / Carton	6 Aerosols	
Item No.	Colour	Item No.
	White (RAL 9016*)	RS47000
	Yellow (RAL 1023*)	RS47001
	Red (RAL 3020*)	RS47002
	Blue (RAL 5017*)	RS47003
	Green (RAL 6024*)	RS47004
	Orange (RAL 2009*)	RS47005
	Black (RAL 9017*)	RS47006
	Grey (RAL 7045*)	RS47007
	Flourescent Yellow	RS47009

\*nearly similar to RAL

## Line marking tools



Airbowl applicator	1 Piece – 55 / 75 / 100 mm	
Packaging size	RS47010	
Item No.	Item No.	Item No.
Applicator spare	Spare masking set	
Packaging size	2 Pieces	
Item No.	RS47011	
Applicator gun	1 Piece	
Packaging size	RS46013	
Item No.		

## Accessories kit

EASYLINE® stencils	1 Piece	
Packaging size	RS40141 (150 mm)	
Item No.	Item No.	Item No.
150mm	A-Z	1 pcs
	L, N, P, S	3 pcs
	A,E,O	4 pcs
	Numbers 0-9	2 pcs
300mm	A-Z	1 pcs
	L, N, P, S	3 pcs
	A,E,O	4 pcs
	Numbers 0-9	2 pcs
	Straight Arrow	1 pcs
	[-Arrow	1 pcs

EASYLINE® large disabled stencil	1 Piece	
Packaging size	RS40142	
Item No.	Item No.	Item No.
Overall Dimension	66,1 x 55,9 cm	
Dimension Symbol	54 x 47 cm	

# ROCOL® – excellent value for money



## Marking spray TOP



Packaging size	500 ml	
Units / Carton	12 Aerosols	
Item No.	Item No.	Item No.
Red	RS42000	
Orange	RS42001	
Yellow	RS42002	
Cherry	RS42003	
White	RS42004	
Blue	RS42005	
Green	RS42006	
Black	RS42007	

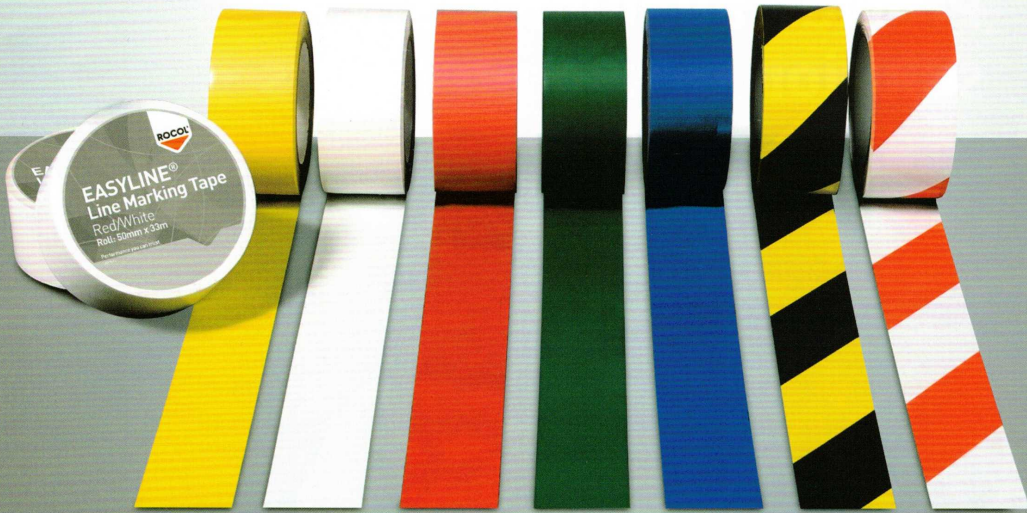
ROCOL® TOP Hand marking spray is based on acrylic resins. The precision valve of Rocol® TOP Spray allows a very precise application as well as an easy handling.



# EASYLINE® line marking tapes

Comprising of a thick, robust and fade resistant PVC film on one side and treated with a tenacious pressure sensitive adhesive on the underside.

41



## EASYTAPE line marking tapes

Size 50 mm x 33 m  
75 mm x 33 m  
Units / Carton 24 Rolls (50 mm), 16 Rolls (75 mm)

Item No.	Item No.	Item No.
White 50 mm RS56000	75 mm RS56010	
Yellow 50 mm RS56001	75 mm RS56011	
Red 50 mm RS56002	75 mm RS56012	
Blue 50 mm RS56003	75 mm RS56013	
Green 50 mm RS56004	75 mm RS56014	
Black / Yellow 50 mm RS56005	75 mm RS56015	
Red / White 50 mm RS56006	75 mm RS56016	

Multicolored tapes pointing right

## EASYTAPE applicator

Applicator for tapes from 50 to 75 mm width. Easy to use with line marking tapes.



Packaging size 1 Piece  
Item No. RS56099

### Starter Sets

Including: Easytape applicator as well as 3 tapes in 50 mm width

Packaging size 1 Piece  
Item No. Set 1 RS56100 (50 mm white)  
Item No. Set 2 RS56101 (50 mm yellow)

### Available Colours

-  Yellow
-  White
-  Red
-  Green
-  Blue
-  Black / Yellow
-  Red / White



# Provide an immediate solution to slip problems



# SAFE STEP®

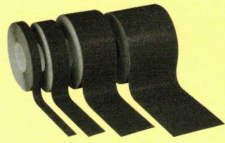
When you need an immediate solution to a slip problem, need to keep the cost down and cannot afford to close off an area for more than a few minutes, SAFE STEP® self-adhesive tapes and treads provide an economical, efficient answer. Whether the problem exists indoors or outdoors, on steps and walkways, around machinery or even in shower areas, SAFE STEP® tapes will provide a safe and durable anti-slip surface suitable for pedestrian traffic.





## Anti-Slip Tapes

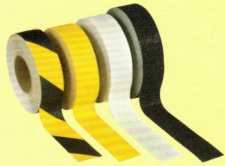
### SAFE STEP® tapes



Tape	Standard Black	
Packaging size	1 Roll	
Item No.	25 mm x 18,25 m	RS43530
	50 mm x 18,25 m	RS43531
	100 mm x 18,25 m	RS43532
	150 mm x 18,25 m	RS43533

When you need an immediate solution to a slip problem, need to keep the cost down and cannot afford to close off an area for more than a few minutes, SAFE STEP® self-adhesive tape provides an economical, efficient answer. Whether the problem exists indoors or outdoors, on steps and walkways or around machinery, SAFE STEP tape will provide a safe and durable anti-slip surface suitable for pedestrian traffic.

### SAFE STEP® tapes



Tape	50 mm x 18,25 m	
Packaging size	1 Roll	
Item No.	Black / Yellow	RS43543
	Luminescent	RS43544
	Neutral	RS43539
	High Vis Neon	RS43540
	Aqua	RS43538

When you need an immediate solution to a slip problem, need to keep the cost down and cannot afford to close off an area for more than a few minutes, SAFE STEP® self-adhesive tape provides an economical, efficient answer. Whether the problem exists indoors or outdoors, on steps and walkways or around machinery, SAFE STEP tape will provide a safe and durable anti-slip surface suitable for pedestrian traffic.

### SAFE STEP® Edge Sealer



Packaging size	100 ml
Item No.	RS43542

SAFE STEP® Edge Sealer is a synthetic bonding agent designed for use with the SAFE STEP® range of tapes and treads. It seals the edges and prevents the ingress of fluids, thereby increasing the durability of the tapes when exposed to wet conditions.

### SAFE STEP® Strong Bond



Tin with brush	
Packaging size	500 ml
Item No.	RS43541

SAFE STEP® Strong Bond is a single pack, synthetic adhesive solution used to prime rigid or porous surfaces prior to the application of SAFE STEP® Tapes, pre-cut Treads.



## Floor coatings as a simple solution

### Safe Step® 50

For use in large areas where a low-profile pedestrian grade anti-slip coating is required.  
R-Value: 13



### Safe Step® 100

A high performance, single pack epoxy ester anti-slip coating suitable for heavy pedestrian.  
R-Value: 13 | V-Value: 10



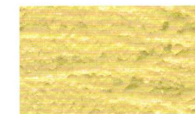
### Safe Step® 200

A high performance, two-part epoxy anti-slip coating suitable for heavy vehicular traffic.  
R-Value: 11 | V-Value: 10



### Safe Step® 500

Extra heavy duty, two-part epoxy anti-slip coating providing superior resistance to chemicals and wear.  
R-Value: 10 | V-Value: 10



### Safe Step® Anti-slip spray (clear)

Easy to use and quick to apply.  
Suitable for interior and exterior use.  
R-Value: 12





## Anti-Slip floor coatings



### SAFE STEP®

Anti-slip floor coating

Units	1 Pail / 5 l		
Item No.	SAFE STEP® 50	Grey	RS43070
	SAFE STEP® 100	Grey	RS43266
		Tile red	RS43267
		Yellow	RS43277
	SAFE STEP® 200	Grey	RS43320
		Tile red	RS43321
		Yellow	RS43322
	SAFE STEP® 500	SF Grey	RS43323



### SAFE STEP®

Anti-slip spray (clear)

Durability approximately 6 months, dependent upon application. Coverage: 1.5 – 2 m<sup>2</sup> per 400 ml aerosol. Application temperature between 5 – 30° C

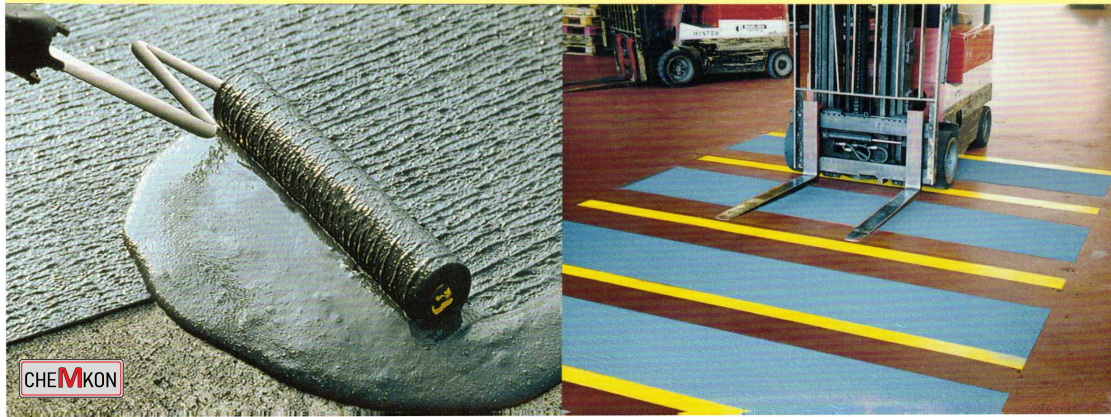
Packaging size	400 ml
Units / Carton	6 Aerosols
Item No.	RS45000

#### Drying Times:

Touch dry	30 – 40 minutes
Over coating time	30 – 60 minutes
Light pedestrian traffic	12 hours

### Primers and Accessory

Item No.	Non Metal Primer	5 l Pail	RS43285
		0,75 l Can	RS43284
	Metal Primer	5 l Pail	RS42087
		0,75 l Can	RS43265
	Hard rollers	6 Pieces	RS40666
	Roller handles	1 Piece	RS40668



## SAFE STEP Repair compounds



### SAFE STEP®

Concrete Repair Compound

SAFE STEP® Asphalt Repair Compound is a durable and long lasting cold lay bitumen macadam developed specifically for the repair of holes in macadam (asphalt) or other paved areas e.g. car parks, walkways, cycle paths etc. It can be laid in all weather conditions and can be driven over immediately after application.

Packaging size	1 Pail / 25 kg
Item No.	RS42025

Appearance	grey
Chemical Type	silica sand and cementitious blend
Form	powder
Odor	none
Flash Point (pack)	none
Density	2.2 g / cm <sup>3</sup>
Drying time	90 minutes – pedestrian traffic use 4 hours - high vehicular traffic use



### SAFE STEP®

Asphalt Repair Compound

SAFE STEP® Concrete Repair Compound is a cementitious dry mix compound, which when supply mixed with water gives a rapid setting permanent, durable repair mortar.

Packaging size	1 Pail / 25 l
Item No.	RS42031

Appearance	anthracite
Binder	bitumen
Form	paste
Odor	none
Coverage	0.75 sq.m per 25 kg unit (10mm thickness)
Flash point	> 200° C
Density	2.0g / cm <sup>3</sup>
Cure time	will vary with temperature and amount of use



### SAFE STEP®

Heavy Duty Epoxy Repair Compound

SAFE STEP® Heavy Duty Epoxy Repair Compound is a three component epoxy repair mortar suitable for repairs to damaged concrete, sills, lintels, steps, ramps, loading bays, floors, chemical bunds, nosings on expansion joints etc. It contains no water or solvents ensuring no shrinkage during curing.

Packaging size	1 Pail / 5 kg
Item No.	RS42036

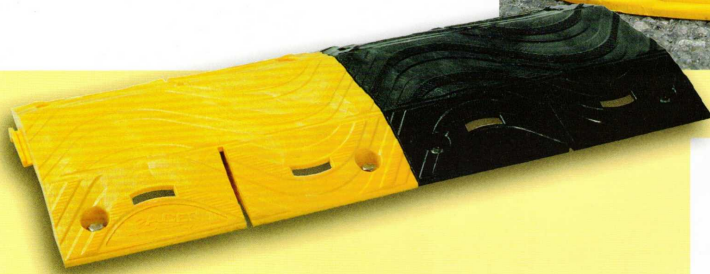
Appearance	light-grey
Chemical Type	filled epoxy-resin
Form	paste
Odor	nearly none
Coverage	2250 cm <sup>3</sup> with one pack
Flash point	> 300° C
Density	1.13g / cm <sup>3</sup>
Cure time	dried-out after 24 hours



## Traffic management

If you are responsible for health and safety within your organisation, you will know how important it is to manage the speed and flow of traffic on your site. ROCOL® offers a comprehensive range of products to help organisations with their traffic management and site maintenance responsibilities.

The PACERS® system is recognised internationally as one of the most effective methods of speed reduction and has been successfully utilised for over 25 years. Manufactured from hard tough, high impact rubber, our PACERS® speed bumps are ideal for areas of intense, heavy traffic such as manufacturing sites, large retail parks or hospitals.



### PACERS® speed bumps

Sizes	PACERS® Standard	50 x 41 x 7 cm
Packaging size	1 pair	
Item No.	Pacers	Standard RS40930
	Endcaps Yellow	Standard RS40931
	Expandaplugs	Pack of 4 RS40934

## PACERS®

### Guidelines

Road width:

0,5 m	1 pair
1,0 m	2 pair
1,5 m	3 pair
2,0 m	4 pair
2,5 m	5 pair
3,0 m	6 pair
3,5 m	7 pair
4,0 m	8 pair

PACERS® end caps cover 23 cm of the road width (1 pair = 46 cm)



**WEN**





**Brite-Mark® Medium**

Vales Action Paint Markers

DYKEM® BRITE-MARK® Valve Action Paint Markers are general purpose markers that write on virtually any surface. The quick drying, oil-based paint withstands indoor and outdoor conditions. The marks remain true and will not fade, chip or lose opacity.



Units / carton	12 Pieces
Item No.	DY84001 blue DY84002 black DY84003 white DY84004 yellow DY84005 orange DY84006 red DY84007 green

**Texpen® Metal Marker Medium**

Steel-Tip Paint Markers

Perhaps the most rugged markers you will ever use. This marker easily writes through oil, grease and even underwater. It features a stainless steel-ball tip so you will never have to worry about the tip wearing out before the paint is gone, even if you are writing on rough concrete or rusty metal. The thick, bold paint markings withstand extreme weather conditions without losing legibility or brightness.



Units / carton	12 Pieces
Item No.	DY16013 blue DY16023 red DY16033 black DY16043 green DY16063 yellow DY16083 white DY16103 orange

All the details you want.  
All the information you need.  
24 hours a day.



Check on our website to find all the information, safety data sheets, technical data sheets and the latest news on our range of products. Always up to date.

[www.itwcp.de](http://www.itwcp.de)





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CRAMOLIN



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