

ADHESIVES AND SEALANTS AUTOMOTIVE



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KÖRAPUR 125 - KÖRAPUR 128

ELASTIC ONE COMPONENT ADHESIVES AND SEALANTS

For primed and painted metals, aluminium and steel, wood and duroplastics. For bonding and sealing in the manufacture of containers, vehicles, vehicle bodywork, air conditioning and heating equipment. Approval for contact with foodstuffs.

| | |
|--------------------|--|
| Base | One component polyurethane, curing by reaction with moisture |
| Density | 1,2 g/cm ³ |
| Cure rate | 3 mm (24 hours) |
| Elongation at tear | 450 % |
| Tensile strength | 2 N/mm ² |
| Shear strength | 2 N/mm ² |
| Hardness Shore A | 45 |
| Properties | Elastic, good resistance to humidity and weathering, resistant to temperatures from -40°C to +90°C (up to 120°C for short intervals), overpaintable after curing |



Sealing application with Körapur 125

KÖRAPUR 125

Elastic one component PUR-sealant, also suitable for bonding applications



Floor construction with Körapur 128

KÖRAPUR 128

Elastic one component PUR-sealant, self levelling, for various sealing and bonding applications

| | | |
|---------------------------|--|-----------------------------|
| Colour | White, grey, black | White, approx. RAL 9010 |
| Viscosity | Thixotropic, low slump | Self-levelling, easy spread |
| Skin time | 45 minutes | 35 minutes |
| Change in volume | 6 % | 9 % |
| Tear propagation strength | 9 N/mm | 6 N/mm |
| Packaging units | 310 ml aluminium cartridge 600 ml sausage 20 kg hobbock 230 kg drum | 600 ml sausage |

PRODUCT INFORMATION

KÖRAPUR 125 - KÖRAPUR 128

Application temperature +5°C to +35°C

Preparation

The surfaces to be bonded must be clean, dry and free from grease. For cleaning we recommend Körasolv PU or CR. In the case of powder coated substrates, Körasolv WL should be used.

To increase bond strength of non-porous substrates such as glass, glass-fibre reinforced plastics, aluminium, stainless steel, etc. we recommend the use of Körabond HG 81. For porous substrates such as wood, Körabond HG 74 is recommended.

For certain plastics such as ABS or PVC we recommend the use of Körabond HG 77 or HG 81.

Users are advised to confirm the compatibility and suitability of the products with their own tests.

Bonding

Apply the product to the substrate using a sealant applicator gun. If required, the product can be spread using a trowel. The thickness of the layer will depend on the type of materials to be bonded. The materials to be bonded should be pressed firmly together within 10 minutes after application of the sealant adhesive. Due to the low initial tack, we recommend mechanical fixing in some applications until a complete cure is obtained. The cure time is dependent on temperature and humidity, and can be reduced by spraying a light mist of water onto the materials to be bonded. This may be required in winter.

Storage

Do not store at temperatures below 5°C or above 25°C. When stored in unopened containers, usable for up to 9 months.

Cleaning

Clean tools immediately after use with Körasolv PU.
Cured material can only be removed mechanically.

For safety information refer to the Material Safety Data Sheet

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KÖRAPUR 140 - KÖRAPUR 140 / 2-k

ELASTIC ADHESIVE AND SEALANT

Elastic, moisture curing one- and two-part adhesive for primed and painted metals, aluminium and steel, wood and duroplastics.
 For bonding in the manufacture of containers, vehicles, vehicle bodywork, air conditioning and heating equipment.

| | |
|--------------------|--|
| Base | Polyurethane, curing by reaction with moisture or hardeners |
| Colour | White, grey, black |
| Density | 1,2 g/cm ³ |
| Viscosity | Thixotropic, low slump |
| Skin time | 45 minutes |
| Elongation at tear | 400 % |
| Tensile strength | 4 N/mm ² |
| Shear strength | 3 N/mm ² (at a layer thickness of 2 mm) |
| Tear strength | 7 N/mm |
| Change in volume | 7 % |
| Hardness Shore A | 55 |
| Properties | Elastic, good resistance to humidity, weathering and temperatures from -40°C to +90°C. For short intervals, resistant up to 120°C. Overpaintable after curing. For a faster curing system, we recommend the use of Körapur 140 / 2k, plus hardener Köracur 100 or Köracur 110. |



Bonding of a roof-element with Körapur 140

KÖRAPUR 140

Elastic one component PUR-adhesive



Bonding of edge profiles with Körapur 140 / 2-part

KÖRAPUR 140 2-k

Elastic PUR-adhesive, excellent mechanical properties

| | | |
|-----------------|--|------------------------------|
| Pot life | - | 20 min |
| Cure rate | 3 mm (24 hours) | 2-3 hours |
| Packaging units | 310 ml aluminium cartridge 600 ml sausage 20 kg hobbock 230 kg drum | 20 kg hobbock 230 kg drum |

PRODUCT INFORMATION

KÖRAPUR 140 - KÖRAPUR 140 / 2-k

Application temperature +5°C to +35°C

Preparation The surfaces to be bonded must be clean, dry and free from grease. For cleaning we recommend Körasolv PU or CR. In the case of powder coated substrates, Körasolv WL should be used.
To increase bond strength on non-porous substrates such as glass, glass-fibre reinforced plastics, aluminium, stainless steel etc., we recommend the use of Primer Körabond HG 81. For porous substrates such as wood, Körabond HG 74 is recommended.
For certain plastics such as ABS or PVC we recommend the use of Körabond HG 77 or Körabond HG 81.
Users are advised to confirm the compatibility and suitability of the products with their own tests.

Bonding Apply the product to the substrate using a sealant applicator gun. The thickness of the layer will depend on the type of materials to be bonded. The materials to be bonded should be pressed firmly together within 10 minutes after application of the adhesive. Due to the low initial tack, we recommend mechanical fixing in some applications until a complete cure is obtained.
The cure time is dependent on temperature and humidity and the dimensions of the seam (or joint).

Storage Do not store at temperatures below 5°C or above 25°C. When stored in unopened containers, usable for up to 9 months.

Cleaning Clean tools immediately after use with Körasolv PU.
Cured material can only be removed mechanically.

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KÖRAPOP 216 - KÖRAPOP 223

ELASTIC ONE COMPONENT SEALANTS

For the manufacture of vehicles, vehicle body work, containers, air conditioning and heating equipment.
 Good adhesion to many metals (zinc, aluminium, steel), painted and primed surfaces, wood, thermoset plastics and some thermoplastics.
 Excellent UV resistance.
 Can be used without primer on a variety of substrates after cleaning.

| | |
|------------|--|
| Base | MS-polymer, one component, curing by reaction with moisture |
| Cure rate | 3 mm (24 h) |
| Skin time | 25 minutes |
| Properties | Elastic, very good resistance to moisture, weathering and to temperatures from -40°C to +80°C, overpaintable up to 5 days after application. Isocyanate and silicone free. |



Seam sealing application with Körapop 216

KÖRAPOP 216

High-quality, sprayable seam-sealer



Easy brushable, joint sealing with Körapop 223

KÖRAPOP 223

Thixotropic, spreadable sealant with excellent mechanical properties

| | | |
|---------------------|--|---------------------------------|
| Density | 1,48 g/cm ³ | 1,64 g/cm ³ |
| Colour | Grey (further colours on request) | White, grey, black |
| Viscosity | Slightly thixotropic, applied using a suitable sealant spray-gun | Thixotropic, spreadable sealant |
| Hardness Shore A | 40 | 32 |
| Elongation at break | 270 % | 350 % |
| Tensile strength | 1,6 N/mm ² | 0,8 N/mm ² |
| Tear strength | 6 N/mm (Form B - ASTM D 624) | - |

| | | |
|-----------------|---------------------|--|
| Packaging units | 310 ml PE-cartridge | 310 ml PE-cartridge 600 ml sausage 270 kg drum |
|-----------------|---------------------|--|

PRODUCT INFORMATION

KÖRAPOP 216 - KÖRAPOP 223

| | |
|-------------------------|---|
| Application temperature | +5°C to +30°C |
| Preparation | The surface to be sealed must be clean, dry and free from dust and grease. Körapop 216 and Körapop 223 can be used without primer on most materials, after cleaning. Users are advised to confirm the compatibility and suitability of the products with their own tests. |
| Storage | Do not store at temperatures below 5°C or above 25°C. When stored in unopened containers, usable for at least up to 12 months. |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured material can only be removed mechanically. |

| | KÖRAPOP 216 | KÖRAPOP 223 |
|---------|---|---|
| Bonding | <p>Apply Körapop 216 using a sprayable sealant applicator gun, which can be adjusted according to requirements (structural seam, profile seam, coating).</p> <p>Note: the gun must contain a cartridge at all times. Never store the gun without a cartridge as the material in the gun will cure. Do not allow contact between Körapop 216 and fresh (not fully cured) PU.</p> | <p>Apply Körapop 223 using a sealant applicator gun. The thickness of the layer depends on the types of material to be bonded and the expected movement. Join the materials to be bonded within 10 minutes after application of the sealant and press firmly together. We recommend mechanical fixing until a complete cure is obtained. The cure time is dependent on temperature and humidity and the thickness of the adhesive layer</p> |

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KÖRAPOP 225 - KÖRAPOP 225 / 2-k

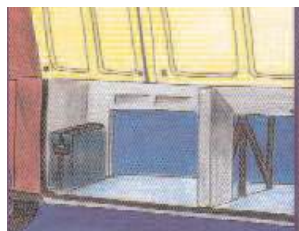
ELASTIC ADHESIVE AND SEALANT

For vehicle bodywork, containers and vehicle construction, air conditioning and heating equipment

Good adhesion to glass, many kinds of metals (zinc, aluminium, steel), painted and primed surfaces, wood, duroplastics and some thermoplastics. Excellent UV resistance. Approval for contact with foodstuffs.

Can be used without primer on a variety of substrates after cleaning.

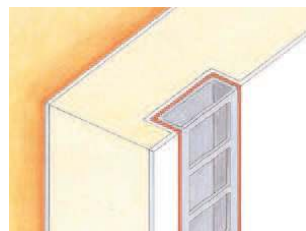
| | |
|--------------------|---|
| Base | MS-polymer, curing by reaction with moisture or hardeners |
| Colour | White (further colours on request) |
| Density | 1,44 g/cm ³ |
| Viscosity | Thixotropic, low slump |
| Skin time | 25 minutes |
| Elongation at tear | 500 % |
| Tensile strength | 3,0 N/mm ² |
| Tear strength | 20 N/mm (DIN 53 515) |
| Hardness Shore A | 42 |
| Properties | Elastic, good resistance to humidity and weathering and to temperatures from -40°C to +80°C. For short intervals, resistant up to 120°C. Can be overpainted immediately after application. We recommend that users test the compatibility of the paint to be used. For a faster curing system, we recommend Körapop 225 / 2-K plus hardener Köracur 310 or Köracur 350. Isocyanate and silicone free. |



Bonding and sealing of the luggage compartment flaps with Körapop 225

KÖRAPOP 225

MS-Polymer, spreadable. Excellent mechanical properties. Isocyanate and silicone free



Bonding of double-deck loading rails with Körapop 225 / 2-k

KÖRAPOP 225 / 2-k

Fast curing

| | | |
|-----------------|---|--|
| Pot life | - | 20 minutes |
| Cure rate | 3 mm (24 hours) | 2-3 hours |
| Packaging units | 310 ml PE-cartridge 600 ml sausage 25 kg hobbock 270 kg drum | 220 ml cartridge 25 kg hobbock 270 kg drum |

PRODUCT INFORMATION

KÖRAPOP 225 - KÖRAPOP 225 / 2-k

| | |
|-------------------------|--|
| Application temperature | +5°C to +30°C |
| Preparation | The surfaces to be bonded must be clean, dry and free from dust and grease. Körapop 225 and Körapop 225 / 2-k can be used without primer on most materials. Users are advised to confirm the compatibility and suitability of the products with their own tests. |
| Bonding | Apply Körapop 225 using a sealant applicator gun. The thickness of the layer depends on the types of material to be bonded and the expected movement. We recommend mechanical fixing until a complete cure is obtained. The cure time is dependent on temperature and humidity and the thickness of the adhesive layer. |
| Storage | Do not store at temperatures below 5°C or above 25°C. When stored in unopened containers, usable for up to 12 months. |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured material can only be removed mechanically. |

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KÖRAPOP 235 - KÖRAPOP 240

ELASTIC ONE COMPONENT ADHESIVES

For vehicle bodies, containers and vehicle construction.
 Good adhesion to glass, most metals, painted and primed surfaces,
 wood, duroplastics and some thermoplastics.
 Excellent UV resistance.
 Can be used without primer on a variety of substrates after cleaning.

| | |
|------------------|---|
| Base | MS polymer, one component, curing by reaction with moisture |
| Colour | White (further colours on request) |
| Viscosity | Thixotropic, low slump |
| Skin time | 10 minutes |
| Tensile strength | 3,3 N/mm ² |
| Properties | Elastic, good resistance to moisture and weathering and to temperatures from -40°C to +80°C. For short intervals resistant up to +120°C. Overpaintable immediately after application. Isocyanate and silicone free. |



Seal between body and insulating glass element with Körapop 235

KÖRAPOP 235

MS Polymer, thixotropic spreadable. Excellent mechanical properties.



Bonding and sealing of mountings made of thermoplastic materials with Körapop 240

KÖRAPOP 240

Good cataplasma properties

| | | |
|--------------------|------------------------|------------------------|
| Density | 1,44 g/cm ³ | 1,41 g/cm ³ |
| Elongation at tear | 550 % | 430 % |
| Shear strength | 2,2 N/mm ² | 2,7 N/mm ² |
| Tear strength | 24 N/mm | 21 N/mm |
| Hardness Shore A | 50 | 55 |

| | | |
|-----------------|---------------------------------------|---------------------------------------|
| Packaging units | 310 ml PE-cartridge 600 ml sausage | 310 ml PE-cartridge 600 ml sausage |
|-----------------|---------------------------------------|---------------------------------------|

PRODUCT INFORMATION

KÖRAPOP 235 - KÖRAPOP 240

| | |
|-------------------------|--|
| Application temperature | +5°C to +30°C |
| Preparation | The surfaces to be bonded must be clean, dry and free from dust and grease. Körapop 235 and Körapop 240 can be used without primer on most materials. Users are advised to confirm the compatibility and suitability of the products with their own tests. |
| Bonding | Apply Körapop 235 and Körapop 240 using a sealant applicator gun. The thickness of the layer will depend on the types of material to be bonded. Join the materials to be bonded within 10 minutes after application and press firmly together. We recommend mechanical fixing until a complete cure is obtained. The cure time is dependent on temperature and humidity and the thickness of the adhesive layer. |
| Storage | Do not store at temperatures below 5°C or above 25°C. When stored in unopened containers, usable for up to 9 months. |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured adhesive can only be removed mechanically. |

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KÖRAPUR 666 - KÖRAPUR 840

TWO COMPONENT-REACTIVE ADHESIVES

High strength adhesives for use in the manufacture and construction of commercial and refrigerated vehicles and containers.
 Good adhesion to wood, steel, aluminium, duroplastics and some thermoplastics.

| | |
|--------------|---|
| Base | 2-part polyurethane adhesives, solvent free |
| Colour | Beige |
| Pot life | Variable according to grade |
| Working time | Variable according to grade |



Bonding of floor elements



Assembly bonding

KÖRAPUR 666
Excellent adhesion to wood

KÖRAPUR 840
With flexible properties

| | | |
|------------------|---|--|
| Density | 1,70 g/cm ³ (resin) 1,23 g/cm ³ (hardener) 1,63 g/cm ³ (mixed) | 1,55 g/cm ³ (resin) 1,23 g/cm ³ (hardener) 1,45 g/cm ³ (mixed) |
| Viscosity | 50.000 mPas (mixed) | 40.000 mPas (mixed) |
| Mix ratio | Resin : hardener 6 : 1 (by weight) | Resin : hardener 5 : 1 (by weight) |
| Initial strength | 12-16 hours at 20°C | 6-8 hours at 20°C |
| Shear strength | <u>aluminium / wood</u> 17 N/mm ² at -20°C 14 N/mm ² at 20°C 3,5 N/mm ² at 80°C | <u>aluminium / aluminium</u> 24 N/mm ² at -20°C 16 N/mm ² at 20°C 4,4 N/mm ² at 80°C |
| Properties | Good resistance to humidity and weathering, particularly good adhesion to aluminium, wood, PVC (Rigid) and GRP | Flexible at low temperatures, good resistance to humidity and weathering |

| | | |
|-----------------|---|--|
| Packaging units | 0,350 kg mixing cartridge 1 kg mixing unit 6 kg tin 30 kg hobbock 300 kg drum | 0,360 kg mixing cartridge 0,540 kg tandem cartridge 5 kg tin 30 kg hobbock 300 kg drum |
|-----------------|---|--|

PRODUCT INFORMATION

KÖRAPUR 666 - KÖRAPUR 840

| | |
|-------------------------|--|
| Application temperature | +5°C to +25°C |
| Preparation | The surfaces to be bonded must be clean, dry and free from dust and grease. We recommend that metal surfaces should be prepared by abrasion. A primer may be applied to improve the bond strength and ageing characteristics, as well as resistance to hydrolysis. Thoroughly mix both components together (agitation 400 revs/min) until an even colour is obtained. See separate leaflet on Mixing Instructions for the mixing cartridge. |
| Bonding | Apply an even layer of adhesive using a spatula or trowel, ensuring complete coverage of the surfaces to be bonded. Maximum bond strength is achieved after 10-36 hours in the case of Körapur 666 and after 24 hours in the case of Körapur 840. |
| Storage | Do not store at temperatures below 10°C or above 25°C. When stored in unopened containers at recommended temperatures, usable for up to 12 months |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured adhesive can only be removed mechanically. When processing Körapur 666 and Körapur 840 avoid direct skin contact with the uncured adhesive. Wear protective gloves. |

For safety information refer to the Material Safety Data Sheet

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KÖRAPUR 648 - KÖRAPUR 672

TWO COMPONENT REACTIVE ADHESIVES

For the construction of sandwich elements for refrigerated and commercial vehicles and caravans.
 Good adhesion to wood, steel, aluminium, GRP, duroplastics and some thermoplastics.

| | |
|------------|--|
| Base | 2 part polyurethane adhesives, solvent free |
| Colour | Beige |
| Properties | High strength, very good resistance to humidity and weathering |



Bonding of 4-layer-sandwich-element

KÖRAPUR 648
Long pot life
Long working time
Low viscosity



Bonding of 5-layer-sandwich-element

KÖRAPUR 672
Excellent adhesion to wood

| | | |
|------------------|---|---|
| Density | 1,49 g/cm ³ (resin) 1,23 g/cm ³ (hardener) 1,42 g/cm ³ (mixed) | 1,67 g/cm ³ (resin) 1,23 g/cm ³ (hardener) 1,60 g/cm ³ (mixed) |
| Viscosity | ca. 1.400 mPas (mixed) | ca. 8.000 mPas (mixed) |
| Mix ratio | Resin : hardener 3,5 : 1 (by weight) | Resin : hardener 5 : 1 (by weight) |
| Pot life | 120 minutes | 60 minutes |
| Working time | 180 minutes | 100 minutes |
| Initial strength | 12-16 hours | 8 hours |

| | | |
|-----------------|--|--|
| Packaging units | 30 kg hobbock 270 kg drum 1.300 kg container | 5 kg tin 30 kg hobbock 300 kg drum 1.300 kg container |
|-----------------|--|--|

PRODUCT INFORMATION

KÖRAPUR 648 - KÖRAPUR 672

| | |
|-------------------------|---|
| Application temperature | +5°C to +25°C |
| Preparation | The surfaces to be bonded must be clean, dry and free from dust and grease. We recommend that metal surfaces are prepared by abrasion. A primer may be applied to improve the bond strength and ageing characteristics, as well as resistance to hydrolysis. Thoroughly mix both components together (agitation 400 revs/min) until an even colour is obtained. |
| Bonding | Apply an even layer of adhesive using a spatula, trowel or suitable application equipment to the surfaces to be bonded. The thickness of the adhesive layer is determined by the type of materials to be bonded. Maximum bond strength is achieved after 36 hours in the case of Körapur 648 and after 24 hours in the case of Körapur 672. |
| Storage | Do not store at temperatures below +10°C or above 25°C. When stored in unopened containers, usable for up to 12 months. |
| Cleaning | Clean tools immediately after use, cured adhesive can only be removed mechanically. When processing Körapur 648 and Körapur 672 avoid direct skin contact with the uncured adhesive. Wear protective gloves. |

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KÖRACOLL WB 12

SOLVENT FREE DISPERSION ADHESIVE

For bonding applications in the construction of passenger vehicles, including floor and wall covering trim, sound and thermal insulation and decorative laminates.

Also bonds to wood, sheet metal and GRP.

A universal adhesive for a wide variety of applications.

| | |
|---------------|---|
| Base | EVA / acrylic ester copolymer with self-cross-linking properties |
| Colour | White |
| Density | 1,0 g/cm ³ (+23°C) |
| Viscosity | 9.000 - 13.000 mPas, can be applied by spray gun, roller and brush |
| Solid content | 68 % |
| Properties | Resistant to a large extent to humidity, high temperature stability up to approx. 110°C |



Bonding floor coverings with Köracoll WB 12

KÖRACOLL WB 12
Universal adhesive for a variety of applications

| | |
|-----------------|---|
| Coverage | 250 - 400 g/m ² (depending on the substrate) |
| Shear strength | 80 N/cm ² at 23°C (PVC) |
| Peel resistance | 18 N/cm at 23°C (PVC) |

| | |
|-----------------|----------------------|
| Packaging units | 10 kg plastic bucket |
|-----------------|----------------------|

PRODUCT INFORMATION

KÖRACOLL WB 12

| | |
|-------------------------|--|
| Application temperature | +10°C to +30°C |
| Preparation | The surfaces to be bonded must be clean, dry and free from dust and grease. Please refer to our separate leaflet for detailed Processing Instructions. |
| Bonding | Apply an even layer of adhesive to one of the substrates to be bonded using a spatula, trowel or suitable application equipment. Immediately, but not later than 10 minutes after application of the adhesive, join the two substrates together and use a brush or roller to ensure good contact between the two surfaces and to exclude any entrapped air. Remove any excess adhesive with water immediately. Open assembly time is approx. 20 minutes. For use as a contact adhesive, evenly apply the adhesive to each of the substrates to be bonded using a spatula or brush. Leave for between 20 to 40 minutes before joining the two substrates together firmly to ensure good contact and to exclude any entrapped air. Do not expose the bond to mechanical stress for at least 10 hours. |
| Storage | Do not store at temperatures below 10°C or above 25°C. When stored in unopened containers, usable for up to 9 months. |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured adhesive can only be removed mechanically. When processing Köracoll WB 12 avoid direct skin contact with the uncured adhesive. Wear protective gloves. |

For safety information refer to the Material Safety Data Sheet

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KÖRAPREN FU 2030 - KÖRAPREN FU 35

POLYCHLOROPRENE CONTACT ADHESIVE

Universal contact adhesive for bonding applications in the construction of passenger vehicles including floor and wall covering trim, sound and thermal insulation and decorative laminates. Also bonds to wood, sheet material and GRP. Not suitable for bonding of polystyrene.

| | |
|----------|-------------------------------------|
| Base | Polychloroprene, containing solvent |
| Density | 0,86 g/cm ³ |
| Coverage | 250-300 g/cm ³ |



Bonding floor coverings with Körapren FU 2030

KÖRAPREN FU 2030

Can be applied by brush and roller; universal adhesive for small to medium surface areas



Bonding wall coverings in bus and caravan construction with Körapren FU 35

KÖRAPREN FU 35

Sprayable, for larger surface areas

| | | |
|---------------|--------------------|--|
| Colour | Beige, transparent | Light yellowish, transparent |
| Viscosity | ca. 3.000 mPas | ca. 400 mPas |
| Solid content | 23 % | 21 % |
| Properties | High strength | High strength, good resistance to humidity and high temperatures |

| | | |
|-----------------|--------------------------------------|--------------------------|
| Packaging units | 650 g tin 4,5 kg tin 11 kg keg | 10 kg keg 170 kg drum |
|-----------------|--------------------------------------|--------------------------|

PRODUCT INFORMATION

KÖRAPREN FU 2030 - KÖRAPREN FU 35

| | |
|-------------------------|---|
| Application temperature | +12°C to +25°C |
| Preparation | The surfaces to be bonded must be dry, clean and free from grease |
| Storage | Store in tightly closed containers at temperatures not below 10°C or above 25°C. Shelf life of 9-12 months, when stored in tightly closed containers at recommended temperatures. |
| Cleaning | Clean tools and remove fresh spots using Körasolv PU. |

KÖRAPREN FU 2030

KÖRAPREN FU 35

| | | |
|---------|--|---|
| Bonding | <p>Apply an even layer of adhesive by brush or roller onto the two parts to be bonded. Allow to dry for approx. 15 minutes, then press firmly together. Allow at least 60 minutes after application of the adhesive for the materials to bond. This time will depend on the temperature, thickness of the adhesive film and the absorbency of the substrate.</p> | <p>Spray an even coat of adhesive onto the two surfaces to be bonded. Spray pressure and nozzle size will depend upon application. Allow to dry for 10-15 minutes, then press firmly together.</p> <p>Allow at least 60 minutes after application of the adhesive for the materials to bond. This time will depend upon the temperature, thickness of the adhesive film and the absorbency of the substrates.</p> |
|---------|--|---|

For safety information refer to the Material Safety Data Sheet

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KÖRATAC C 12 - KÖRATAC DF 841

POLYMER ADHESIVES

For cold-welding or bonding plasticized PVC (tank sealing foils, roof foils etc) and rubber (EPDM, SBR, CR) to a wide variety of other materials, such as wood, metal, glass and plastics eg. rigid PVC.

| | |
|-------------|--------------------------------|
| Base | Synthetic resins |
| Colour | Transparent |
| Consistency | Easily brushable, no stringing |



Bonding of rubber components to metals and plastics (excl. PE, PP etc.) with Köratac C 12

KÖRATAC C 12

Fast curing, solvent free, for small areas



Bonding flexible PVC door seals with Köratac DF 841

KÖRATAC DF 841

For bonding flexible and rigid PVC components and for sealing applications in commercial vehicle constructions

| | | |
|------------|--|---|
| Density | 1,0 g/cm ³ | 0,9 g/cm ³ |
| Coverage | 100-250 g/m ² | 60-100 g/m ² |
| Open time | Less than 30 sec. | Less than 1 minute |
| Properties | High strength, good resistance to humidity | High strength, high grab, good resistance to humidity, and to high temperatures |

| | | |
|-----------------|--------------------------------------|---|
| Packaging units | 650 g tin 4,5 kg keg 11 kg keg | 1 litre tin 10 kg keg 170 kg drum |
|-----------------|--------------------------------------|---|

PRODUCT INFORMATION

KÖRATAC C 12 - KÖRATAC DF 841

| | |
|-------------------------|--|
| Application temperature | Not below +12°C |
| Storage | Can be stored for 12 months in original containers. Do not store below 10°C. |
| Cleaning | Körasolv PU |

| | KÖRATAC C 12 | KÖRATAC DF 841 |
|-------------|---|---|
| Preparation | <p>The surfaces to be bonded must be dry, clean and free from dust and grease.</p> <p>As the curing process of the adhesive is started with air humidity acting as catalyst, the humidity in the workroom should amount to 40-70%.</p> | <p>Due to the multitude of different PVC types, in particular of plasticized PVC, preliminary tests have to be carried out for examination of swelling and dissolving characteristics of the material.</p> <p>Clean contaminated foils with Körasolv GL.</p> |
| Bonding | <p>Exact dosage by using the applicator nozzle. Apply the parts to be bonded into the wet adhesive film and press for 10 to 12 seconds. The curing of the adhesive starts immediately after application but will only be completed after 24 hours (25°C / 50% r.h.).</p> <p>The parts to be bonded cannot be positioned after application to the adhesive film.</p> | <p>Quick bonding adhesive system to be applied one or two sided. If one side applied, join the substrates immediately after application of the adhesive. If applied on both substrates wait for approx. 2 minutes after adhesive application before joining them.</p> |

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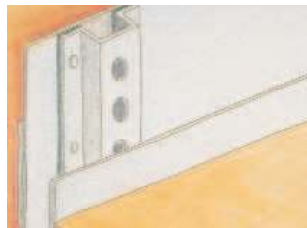
Please refer also to our Terms and Conditions of Sale, a copy of which is available upon request.

KÖDIPLAST CS - KÖDIPLAST CT

ONE COMPONENT BUTYL SEALANTS

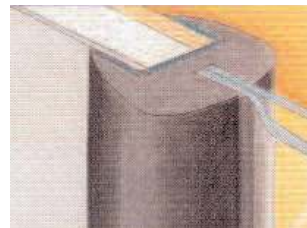
For external joints, gaps and junctions on surfaces such as wood, metal, glass, plastics and many other materials.
 Sealant for commercial vehicles, caravans and containers.
 Not suitable for high movement joints.

| | |
|------------|--|
| Base | Butyl rubber, one component |
| Colour | Grey |
| Viscosity | Thixotropic sealant |
| Properties | Service temperature from -30°C up to +80°C. Good resistance to weathering. Do not use in contact with oils, solvents and fuels. |



Sealing riveted profiles with Ködiplast CS

KÖDIPLAST CS
Soft, non-setting



Sealing against water with Ködiplast CT

KÖDIPLAST CT
Soft, non-setting, easily removed

| | | |
|-------------|------------------------|------------------------|
| Density | 1,34 g/cm ³ | 1,42 g/cm ³ |
| Shrinkage | 20 % | 25 % |
| Weight loss | 15 % | 15 % |

| | | |
|-----------------|---|----------------|
| Packaging units | 310 ml aluminium-cartridge 600 ml sausage 25 kg hobbock | 600 ml sausage |
|-----------------|---|----------------|

PRODUCT INFORMATION

KÖDIPLAST CS - KÖDIPLAST CT

| | |
|-------------------------|--|
| Application temperature | +15°C to+25°C |
| Preparation | The surfaces must be clean, dry and free from grease. Use Körasolv GL to degrease non porous surfaces such as glass and metal. Please contact our Technical Department for advice if the product is to be used with plastics such as Polycarbonate and PMMA. |
| Sealing | Apply using a sealant applicator gun or spatula. Avoid trapping air bubbles. The final seal is achieved after all the volatile materials have evaporated. Evaporation rate depends on the temperature and joint size. When used with EPDM foils, some wrinkling of the foil may occur. This effect is reversed after a short time. |
| Storage | Do not store at temperatures below +5°C or above +25°C. When stored in unopened containers at recommended temperatures, usable for up to 12 months. |
| Cleaning | Clean tools and remove fresh spots with Körasolv PU. |

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KÖDISIL HAC - KÖDISIL N

ELASTIC ONE COMPONENT SILICONE SEALANTS

For sealing in the manufacture of containers, vehicles, trucks, vans, caravans and sales vehicles.

| | |
|-------------------|--|
| Base | Neutral curing silicone rubber, one component, vulcanizing under the influence of humidity |
| Properties | Ködisil HAC and Ködisil N contain some additives which either prevent fungal attack on a long-term basis or delay its occurrence considerably. The vulcanized compound is resistant to temperatures from -40°C to +180°C. Good resistance to weathering and ageing; resistant to many solvents, oils, fuels, water, some acids, detergents. |
| Movement capacity | Approx. 25 % |



Sealing against water with Ködisil HAC



Sealing sanitary ware with Ködisil N

KÖDISIL HAC

for use in sanitary engineering and humid premises, e. g. for joints between steel or enamel bathtubs and basins and wall tiles in bathrooms and washrooms.

KÖDISIL N

Self-vulcanizing, glazing silicone, neutral curing, for a wide range of applications. Highly resistant against humidity and normal climatic and environmental effects

| | | |
|------------------|------------------------|---|
| Colour | Transparent | White, transparent |
| Density | 1,03 g/cm ³ | 1,27 g/cm ³ (white), 1,02 g/cm ³ (transparent) |
| Hardness Shore-A | 17 | 23 (white) 19 (transparent) |
| Skin time | 10 minutes | approx. 5 minutes |

| | | |
|-----------|---|---|
| Packaging | 310 ml PE-cartridge 400 ml sausages 600 ml sausages | 310 ml PE-cartridge 400 ml sausages 600 ml sausages |
|-----------|---|---|

PRODUCT INFORMATION

KÖDISIL HAC - KÖDISIL N

| | |
|------------------|--|
| Preparation | The joints must be clean, dry and free from dust and grease. Körasolv GL can be used for degreasing non-porous surfaces such as glass and metal. Please contact our Technical Department for advice if the product is to be used with plastics such as Polycarbonate and PMMA. |
| Sealing | Apply the sealant directly from the cartridge using a sealant applicator gun and ensure that complete contact is made with the substrates. Care should be taken to avoid trapping air within the sealant. Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in the case of vertical joints, lightly tool the sealant into the joint. This will improve adhesion, reduce air content and enhance the appearance of the finished joint. If masking tape was used, it should be carefully removed, ensuring that it is not dragged against the face of the joint. |
| Joint dimensions | The joints to be sealed should be at least 4 mm wide and 4 mm deep. For joint widths up to approx. 5 mm, a joint with a square cross-section is most suitable. For wider joints the joint depth should be at least half the joint width (but not more than 15 mm). Prior to sealing, a stable, non-absorbent insert material is to be pressed into the joint. This insert material which should possibly be convex, e. g. polyethylene foam, is to be inserted in such a way that the adhesion surface on the joint flanks is as large as possible (see also German DIN standard 18 540). It is recommended to cover the edges of the gap with self-adhesive tape in order to ensure a clean and straight joint. Triple surface adhesion is to be avoided. |
| Storage | Do not store at temperatures below +10°C or above +25°C. When stored in unopened containers at recommended temperatures, usable for up to 9 months. |
| Cleaning | To clean tools and remove fresh spots use Körasolv GL. |

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KÖRATAPE AT 3 - KÖRATAPE MTC

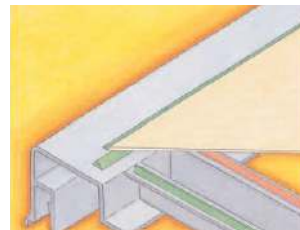
ACRYLIC TAPES

Köratape is designed for use in a wide variety of industrial and construction applications to replace mechanical fasteners and welds. Typical applications include automotive trim attachment, trailer skin-to-frame assembly, signs, graphics, furniture, appliance, and electrical component assemblies.

| | |
|---------------------|---------------------|
| Base | Acrylic |
| Thickness | 0,64 mm to 2,03 mm |
| Width | 6,35 mm to 457,2 mm |
| Service temperature | -35°C to 90°C |



Use of Köratape as an assembly aid



Use of Köratape as an assembly aid

KÖRATAPE AT 3
Acrylic tape with solid acrylic core

KÖRATAPE MTC
Acrylic tape with microcellular acrylic core

| | | |
|------------------|-------------|--------------------|
| Colour | Translucent | White, grey, black |
| Tensile strength | 1,4 MPa | 0,76 MPa |
| Elongation | 500 % | 700 % |
| Peel strength | 2,63 N/mm | 3,5 N/mm |

| | | |
|-----------|------------|------------|
| Packaging | on request | on request |
|-----------|------------|------------|

PRODUCT INFORMATION

KÖRATAPE AT 3 - KÖRATAPE MCT

| | |
|--------------------------|---|
| Application temperature | 10°C to 35°C |
| Preparation | The substrate to be bonded should be cleaned with an appropriate solvent, preferably Isopropanol no more than 15 minutes prior to bonding of acrylic adhesive backed part. To ensure removal of all contaminants without leaving any residue, use a clean, lint-free wiping cloth or disposable wipe (never recycled rags). Other solvents such as hexane, heptane or alcohol may be suitable for cleaning various substrates after thorough evaluation. The substrate must be thoroughly dry through evaporation of the solvent with radiant heat, hot air dryers or with time before bonding acrylic adhesive backed parts. Ensure optimum substrate temperature, never below 15°C at application time. Ensure application temperature of 10°C to 35°C. |
| Application Instructions | Remove the protective release liner from the acrylic tape immediately prior to applying the part to be bonded, being careful not to contaminate the acrylic adhesive. Apply within 15 minutes after the adhesion promoter has been applied. Apply the part to be bonded without entrapping air between the tape and the substrate with a recommended minimum application pressure of 2.7 kg/cm of tape width to achieve adhesive to substrate contact and maximum bond strength. |
| Storage | Two years minimum from date of manufacture (at 20°C/50% rel. humidity). |
| Cleaning | Use Körasolv CR, GL or WL |

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KÖRAPUR 689 - KÖRAPOX BS 85

SELF LEVELLING PU BASE COAT AND EPOXY TOP COAT

For coating floors of lorries, containers, mobile shops, caravans, mobile homes etc.

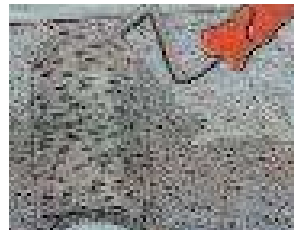
Can be used on polyester, aluminium, primed steel sheets and wood. Particularly suitable for vehicles carrying fresh foods, meat, fish and refrigerated vehicles (approved to -30°C). Can be used in contact with foodstuffs. Certification is available.

To create a non slip surface, carborundum granules can be sprinkled on and sealed the following day by using Körapox BS 85 A & B.

Colour Grey



Floor coating with Körapur 689



Sealing the granulated material with Körapox BS 85

KÖRAPUR 689
Good self levelling

KÖRAPOX BS 85
Good resistant to UV and water

| | | |
|---------------------|---|---|
| Base | Two component polyurethane, solvent free | Two component epoxy resin, containing solvents |
| Density | 1,40 g/cm ³ (mixed) | 1,14 g/cm ³ (mixed) |
| Viscosity | 3.600 mPas (mixed) | low viscosity |
| Mix ratio | 4 : 1 by weight | 4 : 1 by weight |
| Coverage | 3-5 kg/m ² | 250-400 g/m ² |
| Pot life | 35 minutes at 20°C | 8 hours at 20°C |
| Tensile strength | 18 N/mm ² | not applicable |
| Elongation at break | 15 % | not measured |
| Hardness Shore D | 70 | not measured |
| Characteristics | Tough, with good resistance to abrasion. Approved to EN 438 | Tough, good resistance to water and abrasion, salt, oil |

Packaging units 15 kg mixing unit in stacked container 5 kg mixing unit in stacked container

PRODUCT INFORMATION

KÖRAPUR 689 - KÖRAPOX BS 85

| | |
|-------------------------|--|
| Application temperature | +15°C to +25°C |
| Coating | See separate leaflet for Processing Instructions |
| Storage | Do not store at temperatures below 5°C or above 25°C. Usable for up to 12 months when stored in unopened containers at recommended temperatures. |
| Cleaning | Clean tools immediately after use with Körasolv PU . Cured material can only be removed mechanically. |

KÖRAPUR 689

KÖRAPOX BS 85

| | | |
|-------------|---|--|
| Preparation | <p>This product is only suitable for use on horizontal surfaces, which must be clean, dry and free from dust and grease. The substrates must be properly prepared to ensure good adhesion.</p> <p>Uncoated wooden sheets must not exceed 8-12% moisture content. Previously coated surfaces should be abraded to provide a key for the new coating. Sheets should be joined by tongue and groove and, preferably, bonded.</p> <p>If necessary glass fibre cloth should be placed over the joint to prevent cracking of the top coat.</p> <p>Fill any large holes with e. g. Körapur 666 prior to application of the screed. GRP surfaces which may contain release agents such as paraffin waxes should be thoroughly abraded to remove the surface and ensure good adhesion. Stainless steel and aluminium should be degreased, abraded and primed.</p> <p>When repairing older floors particular care must be given to the pre-treatment of the substrate. Good results can be achieved with sand blasting.</p> | <p>The surfaces must be clean, dry (no more than 14% moisture) and free from grease.</p> <p>Any contaminants must be completely removed, if necessary, by shot blasting.</p> <p>When using as a floor coating for utility vehicles, the excess aggregate can be swept away once the base coat has cured.</p> <p>Afterwards, a second top coat of Körapox BS 85 can be applied within 24 hours.</p> <p>Since the aggregate is well embedded in the coating, this kind of floor covering will provide resistance to abrasion from forklift wheels.</p> |
|-------------|---|--|

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KÖRAPUR 690 - KÖRAPOX BS 90

NON-SLIP FLOOR COATINGS

For non-slip sealing of coated floors in lorries, containers, mobile shops, caravans, etc.
 Particularly suitable for fresh food, meat and fish vehicles as well as refrigerating vehicles (tested up to -30%).
 Safe for contact with foodstuffs. Test certificate available.

| | |
|------------|--|
| Properties | Hard-wearing, tough, good resistance to UV, water and salt |
| Open time | 30 minutes |
| Colour | Grey |



Applying Körapur 690

KÖRAPUR 690
Good resistance to UV



Covering the hydraulic platform with Körapox BS 90

KÖRAPOX BS 90
Good adhesion to metal

| | | |
|-----------|--------------------------------|--------------------------------|
| Base | Two component polyurethane | Two component epoxy resin |
| Density | 1,60 g/cm ³ (mixed) | 1,55 g/cm ³ (mixed) |
| Viscosity | 33.000 mPas (mixed) | 35.000 mPas (mixed) |
| Mix ratio | 3 : 1 by weight | 7 : 1 by weight |
| Coverage | 600-800 g/m ² | 800-1.000 g/m ² |
| Pot life | 120 minutes | 8 hours at 20°C |

| | | |
|-----------------|---------------------------------------|---------------------------------------|
| Packaging units | 6 kg mixing unit in stacked container | 8 kg mixing unit in stacked container |
|-----------------|---------------------------------------|---------------------------------------|

PRODUCT INFORMATION

KÖRAPUR 690 - KÖRAPOX BS 90

| | |
|-------------------------|--|
| Application temperature | +15°C to +25°C |
| Coating | See separate leaflet for Processing Instructions |
| Storage | Do not store at temperatures below 5°C or above 25°C. Usable for up to 12 months, when stored in unopened containers at recommended temperatures. |
| Cleaning | Clean tools immediately after use with Körasolv PU. Cured material can only be removed mechanically. |

KÖRAPUR 690

KÖRAPOX BS 90

| | | |
|-------------|---|---|
| Preparation | <p>The surfaces must be clean, dry and free from dust and grease. The substrates must be properly prepared to ensure good adhesion. This includes mechanical and / or chemical pre-treatment where necessary. Not suitable for sealing flexible substrates like wood. When repairing older floors particular care must be given to the pre-treatment of the substrate. Good results can be achieved with sand blasting.</p> | <p>The surfaces must be clean, dry and free from dust and grease. The substrates must be properly prepared to ensure good adhesion. This includes mechanical and / or chemical pre-treatment where necessary.</p> <p>Galvanised and aluminium surfaces should be well abraded. Not suitable for sealing flexible substrates such as wood.</p> <p>When repairing older floors particular care must be given to the pre-treatment of the substrate. Good results can be achieved with sandblasting.</p> |
|-------------|---|---|

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KÖRASOLV GL - PR - PU - WL

CLEANERS AND DILUANTS

| | KÖRASOLV GL | KÖRASOLV PR | KÖRASOLV PU | KÖRASOLV WL |
|-------------|--|--|--|--|
| Application | Mild cleaner for removing grease. Particularly suitable for cleaning glass | Very strong cleaner for old floors. Also recommended for coated steels | General purpose cleaner for tools and surfaces | Mild cleaner for greasy and waxy surfaces. Particularly suitable for the removal of mould release waxes from GRP |
| Base | Mixture of organic solvents, toluene free | Mixture of organic solvents, toluene free | Mixture of organic solvents, toluene free | Mixture of organic solvents, toluene free |
| Density | 0,79 g/cm ³ | 0,90 g/cm ³ | 0,81 g/cm ³ | 0,80 g/cm ³ |
| Packaging | 1 litre | 1 litre 12,5 litre | 1 litre 5 litre 12,5 litre | 1 litre |

KÖRABOND HG 74 - HG 77 - HG 81

PRIMERS AND ADHESION PROMOTERS

For surface preparation prior to bonding with 1- and 2-k PU systems and MS adhesives and sealants. The use of primers improves adhesion and moisture resistance of the bond. Users are advised to confirm the suitability of the products through their own tests.

| | | | |
|-----------------|--|--|---|
| Base | Synthetic resin, containing solvents | | |
| Viscosity | Low viscosity | | |
| | KÖRABOND HG 74 <i>Moisture curing primer</i> | KÖRABOND HG 77 <i>One component primer</i> | KÖRABOND HG 81 <i>Bonding agent</i> |
| Colour | Light yellowish, transparent | Colourless, transparent | Dark yellow, transparent |
| Density | 1 g/cm ³ | 0,92 g/cm ³ | 0,8 g/cm ³ |
| Coverage | 100 g/m ² | 40-80 g/m ² | 20-40 g/m ² |
| Drying time | 60 minutes | 30 minutes | 30 minutes |
| Application | For the pretreatment of porous substrates, for example wood prior to bonding with 1- and 2-k PU's and MS adhesives and sealants. | Primer for pretreatment of rigid PVC and ABS prior to bonding with e. g. Körapur or Körapop. | For the pretreatment of non-porous substrates, for example metals (aluminium, steel, brass, copper, zinc, tin), plastics (ABS, PVC-rigid, PA, SMC, GRP, PUR), varnished surfaces, enamel, ceramics as well as laminated glass prior to bonding with 1- and 2-k polyurethanes and MS adhesives and sealants. |
| Packaging units | 500 g tin (carton of 10 tins) | 1 litre tin (cartons of 10 tins) | 1 litre tin (cartons of 10 tins) |

PRODUCT INFORMATION

KÖRABOND HG 74 - HG 77 - HG 81

| | |
|-------------------------|---|
| Application temperature | +10 to +25°C |
| Preparation | The surfaces must be dry, clean and free of dust and grease. |
| Storage | Keep containers tightly closed. Do not store below 10°C or for more than 12 months. |

| | KÖRABOND HG 74 | KÖRABOND HG 77 | KÖRABOND HG 81 |
|-------------|--|---|--|
| Preparation | Apply Körabond HG 74 by brush or roller to the surfaces to be bonded and allow to dry. The adhesive or sealant should be applied to the primed surface within 8 hours of application of the primer to ensure maximum adhesion, otherwise fresh primer must be applied. | Apply Körabond HG 77 by brush or roller to the surfaces to be bonded and allow to dry. The adhesive or sealant should be applied to the primed surface within 24 hours of application of the primer to ensure maximum adhesion, otherwise fresh primer must be applied. | The surfaces must be dry, clean and free from dust and grease. Apply Körabond HG 81, by cloth, to the surfaces to be bonded and allow to dry. The adhesive or sealant should be applied to the primed surface within 24 hours of application of the primer to ensure maximum adhesion, otherwise fresh primer must be applied. Users are required to confirm the compatibility and suitability of the product through their own tests. |

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KÖMMERLING - MORE THAN JUST A PRODUCT

Our philosophy ...

... more research and development!

We have the solutions for tomorrow's requirements today.

... more products!

We have the widest product-range in the market.

... more logistics!

We help to save your time.

... more consulting and training!

We increase your benefit, your certainty and your income return.

... more service!

We are there when you need us.

... more communication!

We are active in building-up your market.

... more quality!

We offer you high performance products.

