

Belt Repair-Kit



Fast application without tools | highly elastic, wear-resistant, impact- and abrasion resistant | high resistance to chemicals and pressure

WEICON Belt Repair-Kit is a 2-component polyurethane system for the fast repair and coating of rubber surfaces. It has a high curing speed, high elasticity and wear resistance, is impact-resistant and abrasion-resistant, and has a particularly high tear resistance. Thanks to its high mechanical strength, it is suitable especially for repairs on rubber and metal components, which are exposed to impacts, abrasion or vibrations. The Belt Repair-Kit offers fast and easy processability. The system is suitable for various applications, such as the repair and coating of conveyor belts, the repair of rubber coatings, for use as flexible wear protection, and for the fast repair of worn-out rubber surfaces. In addition to the polyurethane system, the set comprises a primer for surface pre-treatment, and a spatula to spread the compound evenly. In order to cover a broader application range, in addition to the classic 500 g working package, which needs to be mixed by hand, the product is also available as easy-to-use 540 g double cartridge.

Technische Daten Primer

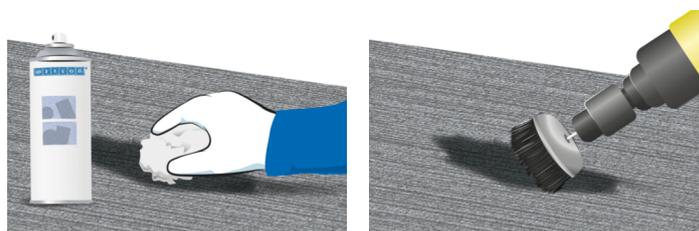
Base	Urethane
Colour	yellowishtransparent
Mixing ratio by weight	32:1
Density of the mixture	1,1 g/cm ³
Viscosity of the mixture	20°C 40 mPa·s
Pot life	20°C 15 min.
Additional layer with polyurethane	nach 30 bis 60 min.

Technische Daten Urea

Base PU		polyurea
Colour after curing PU		black
Mixing ratio by weight PU		10:100
Viscosity of the mixture		pastös
Pot life PU	20°C	20 min.
Working strength/demouldable after PU	20 °C	6-8 h
Handling strength / demouldable (50 °C)		60-90 min.
Final strength PU		24 h
Hardness (Shore A) PU		85
Tensile strength PU	DIN EN ISO 527	7,8 N/mm ²
E-modulus (tensile) PU		9,6 N/mm ²
E-modulus (tensile) PU Norm	DIN EN ISO 527	
Elongation at break (tensile) PU		470
Elongation at break (tensile) PU Norm	DIN EN ISO 527	
Tear resistance PU		31 kN/m
Temperature resistance (wet)		-60 °C bis +60 °C
Temperature resistance (dry)		-60 °C bis +100 °C
Swelling in water	(7 days)	<1,5 %
Zugscherfestigkeit mit Primer G nach DIN EN 1465		
Steel 1.0338 sandblasted		8 N/mm ²
Stainless steel V2A sandblasted		8
Aluminium sandblasted		7 N/mm ²
Galvanized steel		4 N/mm ²

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.



Surface pre-treatment

The successful application of the WEICON Belt Repair-Kit depends on the thorough pre-treatment of all surfaces. This is the most important factor of the overall success. Dust, dirt, oil, grease, rust and moisture have a negative impact on the adhesion of polyurethane resins. Best results are achieved with application on clean, rigid and thoroughly roughened surfaces. Prior to the application of WEICON Belt Repair-Kit, the following points must be strictly observed:

Surfaces must be clean, dry and free of grease. First remove any surface soiling, like dust, dirt, oil and grease, with WEICON Surface Cleaner.

Surface roughening

Then roughen the clean surface with coarse abrasives (twist knot wire wheel, wire brush, diamond blade) thoroughly. While doing so, apply gentle pressure evenly to the surface in order

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Belt Repair-Kit

to prevent the rubber from overheating. Brush off any loose dirt from the surface, then clean again with WEICON Surface Cleaner.

Surface pre-treatment with Primer G

Primer G is a 2C-system, which needs to be mixed prior to the application. To do so, fill the entire content of the syringe into the bottle, then close it and shake well for approx. two minutes. Apply Primer G to the clean and dry surface and spread it evenly using a paint brush. After approx. 30 - 60 minutes, the primer has reached handling strength and can be coated with Urethane 85. During the application, we recommend an ambient temperature of 20°C at a relative air humidity below 85%.

Mixing

- Belt Repair-Kit 550 g

Before adding the hardener, the resin needs to be mixed with the fillers thoroughly and without creating bubbles. Then mix the resin and the hardener at +20°C for at least four minutes thoroughly and without any bubbles with the processing spatula or mechanical mixers at a low speed (max. 500 r/min.). The mixing ratio must be strictly observed. Only prepare as much as can be used up within the pot life of 20 minutes at +20°C. After mixing, apply Urethane 85 with the spatula straight to the primed surface.

- Belt Repair-Kit 590 g

With the help of the provided static mixer, the product can be applied straight from the double cartridge. Discard the first five centimetres of the dispensed bead, then apply Urethane 85 evenly to the primed surface.

Application

For a pre-coating, use the Contour Spatula Flexy to intensely work the Urethane 85 into the surface to achieve maximum adhesion. Immediately after pre-coating, fill the areas that need treatment completely with the compound and spread it evenly.

Shelf life

Store WEICON Urethane at room temperature in a dry place. Unopened containers can be stored at temperatures of +18°C to +25°C for at least 6 months after delivery date. Opened containers must be used up within 3 months.

Accessories

10653491	Dispenser 2C 10:1 Standard, 1 PCE
10650027	, 1 PCE
10953003	Processing spatula, 1 PCE
10953001	Processing spatula, 1 PCE
10953020	Contour Spatula Flexy, 1 PCE
13955050	Primer Applicator, 1 PCE

Conversion table

$(^{\circ}\text{C} \times 1,8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8,851 = \text{lb}\cdot\text{in}$
$\text{mm}/25,4 = \text{inch}$	$\text{Nm} \times 0,738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25,4 = \text{mil}$	$\text{Nm} \times 141,62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0,225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0,571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25,4 = \text{V}/\text{mil}$

Available sizes

10851005	Belt Repair-Kit, 0,55 kg
10851015	Belt Repair-Kit, 0,59 kg

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