

# Belt Repair-Kit



**Pasty | 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.

## Technical data Primer

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

## Technical data Urea

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

## 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](http://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 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

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## Belt Repair-Kit

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.

### Curing

After approx. eight hours at +20°C (68°F), the area can be fully loaded and mechanically processed, e.g. the height can be adjusted with an angle grinder. Temperatures above +20°C (68°F) can reduce the curing time. Temperatures below 16 °C (61°F) increase the curing time, until at approx. 5 °C (41°F) and below, almost no reaction will take place at all.

### Storage

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

10057514	Dispenser 2C 10:1 Standard, 1 PCE
10057191	Mixing Nozzle MFHX, 1 PCE
10022562	Processing Spatula, 1 PCE
10010887	Processing Spatula, 1 PCE
10010066	Contour Spatula Flexy, 1 PCE
10032350	Primer Applicator, 1 PCE
10057199	Primer G, 50 g, pale yellow, transparent

### 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

10052425	Belt Repair-Kit, 0,59 kg
10055014	Belt Repair-Kit, 0,55 kg

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