

Belt Repair Kit SF



fast-curing | wear-resistant | impact- and abrasion-resistant

WEICON Belt Repair-Kit SF is a 2-component polyurethane system for the fast repair and coating of rubber surfaces.

It has a very 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 SF 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.

Technical data Primer

Base	urethane	
Colour	yellowish transparent	
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	30 - 60 min.	

Technical data Urea

Base PU	polyurea	
Colour after curing PU	black	
Mixing ratio by weight PU	10:100	
Viscosity of the mixture	20 °C	pastös
Pot life PU	20°C	3 min.
Working strength/demouldable after PU	20 °C	1 h
Final strength PU	(100 % strength)	3 h
Hardness (Shore A) PU	85±3	
Tensile strength PU	DIN EN ISO 527	8,4 N/mm ²
Elongation at break (tensile) PU	DIN EN ISO 527-2	590
Tear resistance PU	31 kN/m	

Instructions for use

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

Surface pre-treatment

The successful application of the WEICON Belt Repair-Kit SF 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 SF, the following points must be strictly observed:

Cleaning

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 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 SF. During the application, we recommend an ambient temperature of 20°C at a relative air humidity below 85%.

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Mixing

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 SF evenly to the primed surface.

Application

For a pre-coating, use the Contour Spatula Flexy to intensely work the Urethane 85 SF 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.

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

10852015 Belt Repair Kit SF, 0,59 kg