

modified
Formulation



Urethane

Flexible Casting and Coating Resin providing high impact strength and abrasion resistance



Interior coating of a diffuser



Protective lining of a funnel

Technical data:

Colour after cure:	cognac
Mixing ratio by weight:	100 : 35
Specific weight of the mix:	abt. 1,1 g/cm ³
Pot life (of a mix of 795 g):	abt. 20 minutes at +25°C
Temperature resistance:	-60°C to +90°C
Conditions for curing:	The test results as shown below will be obtained either after 14-24 h curing at RT*, followed by temper hardening for 14 h at +40°C, or after 7 days cure at RT*.
Shore A / D hardness (to ISO 868):	75 / 25
Tensile strength (to DIN 53455):	6–8 MPa
Elongation at break (to DIN 53455):	370 %
Tear propagation resist. (to DIN 53356):	15–20 MPa
Viscosity of the mix at 25°C:	2000–4000 mPa·s
Max. casting layer thickness per cast:	75 mm
Demouldable after:	4–6 h at +25°C
Abrasion resistance: (NEMA 100 r.p.m. S 33 abrasive paper strip)	abt. 7–14 mg
Linear thermal expansion:	100–150 · 10 ⁻⁶ K ⁻¹
Linear shrinkage: (test specimen 900 x 75 x 10 mm)	1,2 mm
Thermal Conductivity:	0,2W/m·K
Elektric Resistance (IEC 60093):	1.e+09,5 Ω/cm
Dielectric Strength (IEC 60243-1):	12,1 kV/m

*= room temperature

WEICON Urethane is a 2-component polyurethane that cures at room temperature to a tough rubber-like material, remaining flexible at temperatures down to even -60°C.

It adheres to a variety of materials such as metals, concrete, rubber, wood, fibreglass and many others. It is also suitable as a flexible coating in connection with WEICON Plastic Metal (epoxy) systems.

Due to its low sensitivity to humidity it can also be used for coatings in thin layers and has a remarkably high tensile and tear strength.

For making:

- vibration dampers, assembling jigs
- flexible seals
- rubber-like prototypes
- foundry patterns and forms

For repairs on:

- conveyor belts
- solid rubber tyres
- conveyor rollers

For coatings on:

- machine parts
- rollers
- containers
- centrifuges
- polishing drums
- tanks
- chutes and funnels
- pumps

In addition, WEICON Urethane is excellently suitable as a vibration protection of machines or as an insulation protection.

Any product specifications and recommendations given herein must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications. Protective measures: For handling WEICON Urethane follow strictly the physical, toxicological and ecological data and instructions according to our EC Safety Data Sheets and respect the relevant national safety regulations.

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