

# Urethane 85 SF



**High wear resistance | fast-curing | pasty Shore hardness: A 85**

WEICON Urethane 85 SF is a special, pasty polyurethane for coating and repairing rubber surfaces. For example, conveyor belts in industrial plants, in open-cast mining or in mines can be repaired with the polyurethane. Urethane 85 SF has very high wear resistance. It is free of solvents and is processed at room temperature. Before application, the surface to be treated must be roughened considerably and then wetted with a special 2-component primer (rubber primer), otherwise no adhesion to the surface will be generated. The pot life is two to three minutes. No additional heating is necessary for curing. Surfaces coated with Urethane 85 SF are capable of bearing loads after one hour. Full curing is completed after three hours. A special primer is available for the coating of metal surfaces.

## Characteristics

Base	polyurea
Texture	pasty
Colour	black

## Processing

Processing temperature	+15 °C to +40 °C
Component temperature	>3 °C above dew point
Relative air humidity	max. 85 %
Mixing ratio by weight	1:10
Viscosity resin	at +25 °C 600 mPa·s
Viscosity hardener	at +25 °C 13.000 mPa·s
Viscosity of the mixture	at +25 °C 4.500 mPa·s
Density of the mixture	1,1 g/cm <sup>3</sup>
Consumption	Layer thickness 1.0 mm 1,1 kg/m <sup>2</sup>

## Curing

Pot life	at 20 °C	3 min.
Working strength after	20 °C	1 h
Final strength	(100 % strength)	3 h

## Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	8,4 N/mm <sup>2</sup>
Elongation at break (tensile)	DIN EN ISO 527-2	590 %
Tear resistance		31 kN/m
Hardness (Shore A)	DIN ISO 7619	ca. 85±3

## Thermal parameters

Temperature resistance wet	-60 °C - +80 °C (-76 - +176°F)
Temperature resistance dry	-60 °C - +100 °C (-76 - +212 °F)

## 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

Information about surface pre-treatment and processing can be found in the manual.

## Storage

Store WEICON Urethane SF 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.

## Scope of delivery

Adhesive | Mixing Nozzle MFHX

## Accessories

10809050	Primer G, 50 g, pale yellow, transparent
10953001	Processing Spatula, 1 PCE
10953003	Processing Spatula, 1 PCE
10953020	Contour Spatula Flexy, 1 PCE
13955050	Primer Applicator, 1 PCE
10650027	Mixing Nozzle MFHX, 1 PCE
10653491	Dispenser 2C 10:1 Standard, 1 PCE

## Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm <sup>2</sup> x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

## Available sizes

10810540 Urethane 85 SF, 0,54 kg, black

## Note

The specifications and recommendations given in this technical data sheet 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 guarantee the continuously high quality of our products. 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.

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