

Urethane 80



Shore hardness: A 80

WEICON Urethanes are two-component polyurethanes that cure at room temperature to tough rubber-like materials, remaining flexible at temperatures down to even -60°C (-76°F). WEICON Urethanes adhere to a variety of materials such as metals, concrete, rubber, wood, fibre glass and many others. They are also suitable as flexible coatings in connection with WEICON Plastic Metal (epoxy) systems. Due to their low sensitivity to humidity they can also be used for coatings in thin layers. WEICON Urethane also shows high tensile strength and tear resistance.

Characteristics

| | |
|--------|--------------|
| Base | polyurethane |
| Colour | light beige |

Processing

| | |
|--------------------------|-----------------------|
| Mixing ratio by weight | 100:80 |
| Mixing ratio by volume | 100:88 |
| Viscosity resin | at +25 °C 5.000 mPa·s |
| Viscosity hardener | at +25 °C 190 mPa·s |
| Viscosity of the mixture | at +25 °C 2.000 mPa·s |
| Density of the mixture | 1 g/cm³ |

Curing

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|------------------------|--------------------------|
| Pot life | at 20 °C 25 min. |
| Working strength after | 12 - 20 h |
| Final strength | at room temperature 48 h |

Mechanical properties after curing

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|-------------------------------|--------------|
| Tensile strength | ISO 37 8 MPa |
| Elongation at break (tensile) | ISO 37 600 % |
| Tear resistance | 15 kN/m |
| Hardness (Shore A) | 80 |

Thermal parameters

| | |
|------------------------|----------------|
| Temperature resistance | -60°C to +90°C |
|------------------------|----------------|

Specific properties

| | |
|-----------|-----------|
| IMPA Code | 812963 |
| ISSA Code | 75.509.42 |

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

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

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.

Scope of delivery

Resin & Hardener | Instructions for Use | Processing Spatula | Gloves

Accessories

| | |
|----------|--------------------------------|
| 10953001 | Processing spatula, 1 PCE |
| 10953010 | Stirrer Stainless Steel, 1 PCE |
| 10953020 | Contour Spatula Flexy, 1 PCE |

Conversion table

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

Available sizes:

| | |
|----------|----------------------------------|
| 10518005 | Urethane 80, 0,5 kg, light beige |
|----------|----------------------------------|

To the product detail page:



Note
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