Surface properties beyond comparison
Functional pure polyurea technology

TEKNOPUR 300
elastomeric coating

Paint with Pride
Surface properties beyond comparison

TEKNOPUR 300 elastomeric coating
Functional pure polyurea technology

Extremely fast curing
Polyurea is a technology where an extremely tolerant and fast-setting coating is created by adjusting properties of two reactive components. Curing takes place within seconds rather than minutes.

One of the most resistant coatings in the world
Due to its toughness and elasticity, TEKNOPUR 300 withstands high abrasion, impacts and extreme mechanical loads. It also creates a seamless waterproof paint film that gives matchless protection to the surface beneath the coating. TEKNOPUR 300 is highly resistant to corrosion and chemicals.

When it comes to operational temperatures, TEKNOPUR 300 offers a wide temperature area. Typical usage temperatures are from 40 degrees below zero up to +150 degrees C.

Environmentally friendly
Solvent-free TEKNOPUR 300 emits no volatile organic compounds and therefore it is an environmentally friendly choice as well.
**Extremely fast curing – curing within seconds**
- Fast and efficient painting process
- Walkable within less than a minute

### CURING PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack-free</td>
<td>12 sec</td>
</tr>
<tr>
<td>Walk-over time</td>
<td>40 sec</td>
</tr>
<tr>
<td>Fully cured</td>
<td>24 hours</td>
</tr>
<tr>
<td>Immersion tolerant</td>
<td>1-3 days</td>
</tr>
</tbody>
</table>

**Suitable for immersion and waterproofing**
- Excellent adhesion to metal and concrete
- Seamless waterproof paint film
- Excellent crack bridging ability

### ADHESION

<table>
<thead>
<tr>
<th>Substrate/ Primer</th>
<th>Method</th>
<th>Result</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, FeSa2½</td>
<td>ISO 4624</td>
<td>ca. 10 MPa</td>
<td>–</td>
</tr>
<tr>
<td>Steel, TEKNOPLAST PRIMER 5</td>
<td>ISO 4624</td>
<td>ca. 9 MPa</td>
<td>–</td>
</tr>
<tr>
<td>Birch plywood, TEKNOPUR SEALER 100</td>
<td>ISO 4624</td>
<td>ca. 5 MPa</td>
<td>Substrate break</td>
</tr>
<tr>
<td>Concrete, TEKNOFLOOR PRIMER 306F-01</td>
<td>ISO 4624</td>
<td>ca. 6 MPa</td>
<td>Substrate break</td>
</tr>
</tbody>
</table>

**Excellent chemical resistance**

### CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Medium</th>
<th>Standard</th>
<th>Minimum durability without major changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distilled water</td>
<td>ISO 2812-1</td>
<td>1+ year</td>
</tr>
<tr>
<td>Sea water</td>
<td>ISO 2812-1</td>
<td>1+ year</td>
</tr>
<tr>
<td>NaOH 50%</td>
<td>ISO 2812-1</td>
<td>6+ months</td>
</tr>
<tr>
<td>Ammonia 20%</td>
<td>ISO 2812-1</td>
<td>6+ months</td>
</tr>
<tr>
<td>Sulphuric acid 20%</td>
<td>ISO 2812-1</td>
<td>6+ months</td>
</tr>
<tr>
<td>Acetic acid 10%</td>
<td>ISO 2812-1</td>
<td>6+ months</td>
</tr>
<tr>
<td>Hydrochloric acid HCl 10%</td>
<td>ISO 2812-1</td>
<td>6+ months</td>
</tr>
</tbody>
</table>

**Operator and environmentally friendly**
- Zero VOC emissions
- No need for hot work license (roofing)
- No flammable compounds during application and curing
- Fire classified TEKNOPUR 340 FR is also available.

*Values are typical values based on laboratory tests and should not be considered as product specification.*

![Image of a painting process](image-url)
Outstanding mechanical resistance

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ISO 527-2</td>
<td>25 MPa</td>
</tr>
<tr>
<td>Elongation</td>
<td>ISO 527-2</td>
<td>380%</td>
</tr>
<tr>
<td>Tear strength</td>
<td>ISO 34-1:2015 B</td>
<td>30 N/mm</td>
</tr>
<tr>
<td>Tear strength</td>
<td>ISO 34-1:2015 C</td>
<td>200 N/mm</td>
</tr>
<tr>
<td>Impact resistance at -40°C</td>
<td>ISO 6272-2</td>
<td>&gt; 100 kg*cm</td>
</tr>
<tr>
<td>Taber abrasion resistance, H-18, 1 kg, 1000 rounds</td>
<td>ISO 7784-2</td>
<td>90 mg</td>
</tr>
<tr>
<td>Water vapor permeability</td>
<td>ISO 7783</td>
<td>8 g/m²/day</td>
</tr>
</tbody>
</table>

SUBSTRATES AND PREFERRED PRIMERS

Concrete
TEKNOPUR SEALER 100
TEKNOFLOOR PRIMER 306F and 310F

Steel
TEKNOPUR SEALER 100
TEKNOZINC 3233

Wood, geotextiles and other substrates alike
TEKNOPUR SEALER 100

For other primer alternatives contact Teknos.

SUITABLE FOR INDUSTRIES AND OBJECTS SUCH AS:
- Mining industry
- Pipelines
- Secondary containment
- Machines
- Transportation vehicles
- Roofs
- Steel structures
- Concrete structures
- Pools

COLOURS
Available in black, light grey, tile red and RAL-7031. Other colours by agreement.

Stand out and choose Teknos as your preferred pure polyurea supplier!
- Reliable and well-known Teknos brand comprising high quality products
- Fast and reliable deliveries via a comprehensive distribution network
- All system layers from the same supplier
- Local technical service and support
- Member of the PDA Europe
Tensile testing of TEKNOPUR 300.
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The Teknos Group

Teknos is one of Europe’s leading suppliers of industrial coatings with a strong position in retail and architectural coatings.

Teknos has its own production in seven countries: Finland, Sweden, Denmark, Germany, Poland, Russia and China. In addition, Teknos has sales companies in 16 countries and exports to more than 20 countries via a well-established network of dealers.

Teknos employs around 1 200 staff. Teknos was established in 1948 and is one of Finland’s largest family-owned businesses.

www.teknos.com