

## Surface properties beyond comparison

Functional pure polyurea technology



**TEKNOPUR 300**  
elastomeric coating



Traditional epoxy coating and TEKNOPUR 300 after impact resistance test at -20°C.

# 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**

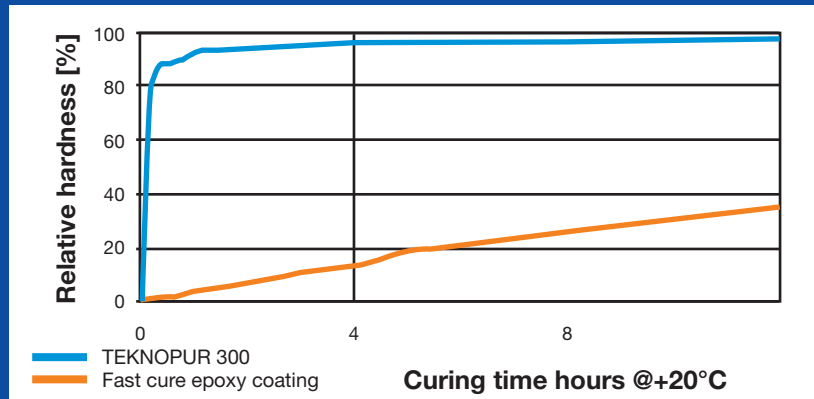
Solvent-free TEKNOPUR 300 emits no volatile organic compounds and therefore it is an environmentally friendly choice as well.

### Extremely fast curing – curing within seconds

- Fast and efficient painting process
- Walkable within less than a minute

### CURING PROPERTIES

- Tack-free → 12 sec
- Walk-over time → 40 sec
- Fully cured → 24 hours
- Immersion tolerant → 1-3 days



### Suitable for immersion and waterproofing

- Excellent adhesion to metal and concrete
- Seamless waterproof paint film
- Excellent crack bridging ability

### ADHESION

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

### Excellent chemical resistance

#### CHEMICAL RESISTANCE

@+23°C if not otherwise noted	Standard	Minimum durability without major changes
Distilled water	ISO 2812-1	2+ years
Sea water	ISO 2812-1	2+ years
NaOH 50%	ISO 2812-1	1+ year
Ammonia 20%	ISO 2812-1	1+ year
Sulphuric acid 20%	ISO 2812-1	1+ year
Acetic acid 10%	ISO 2812-1	1+ year
Hydrochloric acid HCl 10%	ISO 2812-1	1+ year

### Operator and environmentally friendly

- Zero VOC emissions
- No need for hot work license (roofing)
- No flammable compounds during application and curing
- Fire classification of TEKNOPUR 300: EN 13501-1: Efl
- Fire classification of TEKNOPUR 340 FR: CEN TS 1187: BROOF T2
- EN 13501-1: Cfl-s1



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



Kotek Factory Service Oy

**Outstanding mechanical resistance**

**PHYSICAL PROPERTIES**

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

**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.



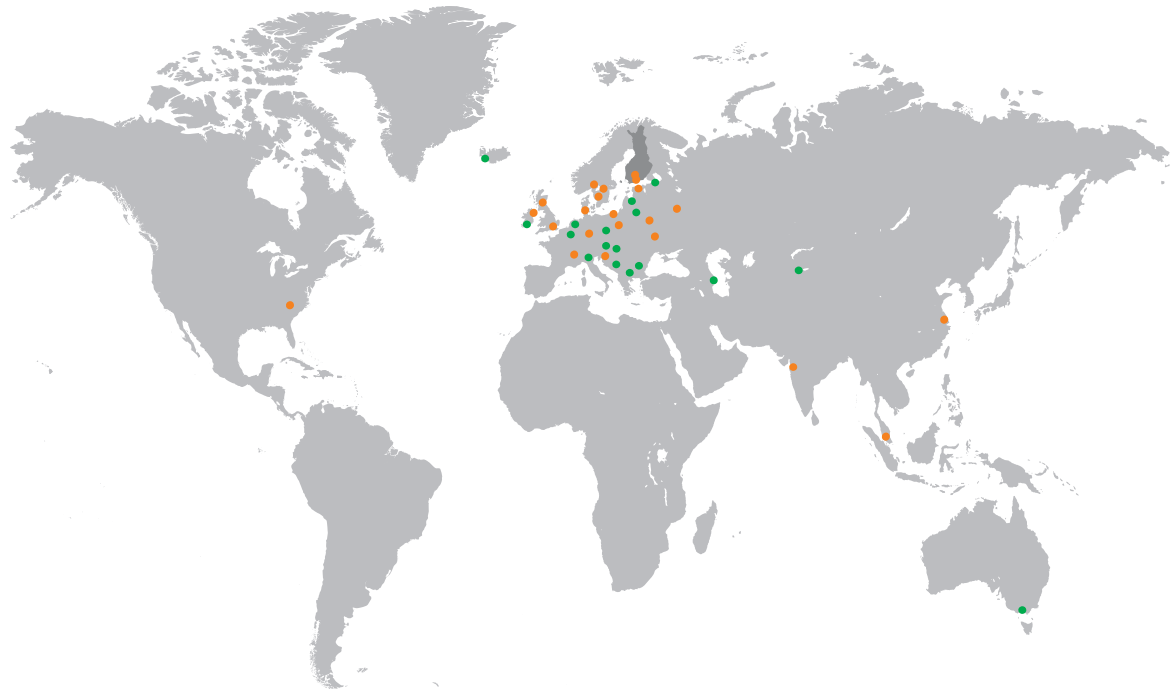
**Stand out and choose Teknos as your preferred pure polyurea supplier!**

- 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



## The Teknos Group

Teknos is a global coatings company with operations in more than 20 countries in Europe, Asia, and the USA. It employs approximately 1,700 people and makes annual net sales of approximately EUR 400 million. Teknos is one of the leading suppliers of industrial coatings with a strong position in retail and architectural coatings. Teknos wants to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong. Teknos always works in close cooperation with its customers. It was established in 1948, and is one of Finland's largest family-owned businesses. For further information, visit [www.teknos.com](http://www.teknos.com)



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