TEKNO®
construction chemicals

Polyurea Spray System

Index

Products and Description

Teknobond 300

Two component, solvent-free epoxy based primer.

5 kg set - 15 kg Set

Teknobond 300 NB

Two component, solvent-free epoxy based primer for wet surfaces.

5 kg set -16 kg Set

Teknomer 650

Pure polyurea based, two component, solvent free, flexible, aromatic waterproofing and coating material

420 kg Set
200 kg Barrel A + 220 kg Barrel B

Polyurea Application Machine

You can sprey polyurea and polyurethane foam from foundation to roof. It is suitable for every insulation zone.

Teknobond 300

Epoxy Based, Two Component, Low Viscosity Primer

CE EN 1504-2

Product Description

Teknobond 300 is a two component, low viscosity, solvent free epoxy resin primer.

Areas of Usage

- Lining concrete surfaces, cement screed and epoxy mortars,
- As a primer before all polyurea, epoxy and polyurethane floor coatings,

Features and Benefits

- Low viscosity
- Has good penetration properties,
- High bond resistance,
- Solvent free,
- Easy to implement,
- Waiting times are short,
- All purpose
- It can be used outdoors,

Application Instructions

Surface Preparation: The application surface should be free of all kinds of dust, dirt, weak and friable particles, cement sherbet residues, oil and grease and dry. Concrete substrate must be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm²), tensile strength (pull off) at least 1.5 N/mm². Application surface, to ensure maximum adhesion resistance, pressurized air holding, etc. it must be cleaned using methods.
Mixing: After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer.
Make sure that a continuous, nonporous layer is covered by the surface. If necessary, apply two storey of primer. Teknobond 300 can be applied with brush, roller or spray gun. Immediately after application, tools should be cleaned with TEKNOTHINNER without hardening. Hardened product can only be mechanically cleaned.

Application Notes / Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves, mask and goggles should be worn. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- +5°C below the product stored for a long time can be observed crystallization. If the crystals are dissolved, the product can be used without any problems by returning to room temperature.
- Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV).

Consumption

Teknobond 300 Primer : 200-300 gr/m² depending of the surface.

Technical Data

General Information		
Chemical Structure	Solvent free Epoxy	
Color	Transparent Yellowish Liquid	
Shelf Life	12 months from the date of production in its original packaging	
Package	A Component: 10 kg can B Component: 5 kg can A+B Components: 15 kg set	A Component:400 kg (2 tub) B Component: 200 kg tub A+B Components: 600 kg set (3 tub)
Application Information		
Mixture Density	1,10±0,02 g/ml (EN ISO 2811-1)	
Pot Life	≥ 30 minutes (It depends on the weather conditions)	
Waiting Period Between Layers	Min 24 hours, max 3 days (+20°C)	
Mixture Ratio	2 Component A : 1 Component B (Weight)	
Full Strength	7 days (+20°C de)	
Surface/Environment Temperature	Min +10°C / Max +30°C	
Surface Humidity Content	< 4% (Weight)	
Relative Humidity	It should be max %80	
Performance Information		
Bending Resistance (7 days)	≥ 30 N/mm²	(TS EN 196-1)
Compressive Resistance (7 days)	≥ 90 N/mm²	(TS EN 196-1)
Concrete Adhesion Strength	≥ 4 N/mm² (From Concrete)	(TS EN 4624)
Steel Adhesion Strength	< 3 N/mm²	(TS EN 4624)
Shore D Hardness (7 days)	83	
Thermal Strength	Continuous: +50°C max 7 days: +80°C	

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

Teknobond 300 NB

Epoxy Primer For Wet Surfaces

CE EN 1504-2

Product Description

Teknobond 300 NB is epoxy based, two component, low viscosity, solvent free, primer for moist and wet surfaces.

Areas of Usage

- Lining concrete surfaces, cement screed and epoxy mortars,
- On normal, hot surface, moist and wet surfaces,
- As a primer before all polyurea, epoxy and polyurethane floor coatings,

Features and Benefits

- It acts as a moisture barrier by providing very good adherence to moist and wet surfaces
- Low viscosity,
- Has good penetration properties,
- High bondresistance,
- Solvent free,
- Easy to implement,
- Waiting times are short,
- All purpose
- It can be used outdoors,

Application Instructions

The application surface should be free of all kinds of dust, dirt, weak and friable particles, cements herbet residues, oil and grease and dry. Concrete substrate must be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm2), tensile strength (pull off) at least 1.5 N/mm2. Application surface, to ensure maximum adhesion resistance, pressurized air holding, ete. it must be cleaned using methods. After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer. Make sure that a continuous, nonporous layer is covered by the surface. If necessary, apply two storey of primer. Teknobond 300 NB can be applied with brush, roller or spray gun. Immediately after application, tools should be cleaned with TEKNO THINNER without hardening. Hardened product can only be mechanically cleaned.

Application Notes / Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves,
- Mask and goggles should be worn. in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 0°C below the product stored for a long time can be observed crystallization. If the crystals are dissolved, the product can be used without any problems by returning to room temperature.Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV)

Consumption

Teknobond 300 NB Primer : 200-300 gr/m² depending of the surface.

Technical Data

General Information		
Chemical Structure	Epoxy Resin Based	
Color	Transparent Liquid	
Package	16 kg set	
Shelf Life	12 ay	
Consistency	A Component : 1,10±0,02 (kg/lt) B Component : 1,03±0,02 (kg/lt) Mixture: 1,10±0,02 (kg/lt)	(EN ISO 2811-1)
Bending Resistance (7 days)	> 30 N/mm²	(TSEN 196-1)
Compressive Resistance (7 days)	> 75 N/mm²	(TSEN 196-1)
Concrete Adhesion Strength	> 4 N/mm² (FromConcrete)	(TSEN4624)
Steel Adhesion Strength	> 3 N/mm²	(TSEN4624)
Pot Life (23°C , % 50 Moisture}	40 mn. (it depends on weather conditions)	
Mixture Ratio	100 Unit A : 60 Unit B (Weight)	
Full Strength	7 Days	

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

Teknomer 650

Pure Polyurea Based, Two Component, Solvent Free, Flexible, Aromatic, Waterproofing and Coating Material

Product Description

Rapid curing, pure Polyurea system, which has a feature of crack bridging, has designed as a waterproofing membrane. Thissolvent-free ,pure polyurea consists of two components and can be applied to all weather conditions because of its rapid curing chemical structure.

Application Fields

- Terrace, roof, balcony and stream gutter.
- Flower tub insulation.
- Foundation Wall water insulation.
- On reinforced concrete and sheet metal plate.
- Hangars, swimming pools, water parks / theme parks, otopark insulation, underground water tanks and the places that need water insulation and coating.
- For UV resistance, it is applied with Teknobond650P topcoat.

Advantages

- It has high crack bridge feature.
- Keeps its elasticity even at low temperatures.
- The place where Teknomer 650 is applied, can be put into service after a few minutes because of its rapid curing feature.
- It provides excellent adhesion and has chemical and mechanical strength.
- It provides a seamless application due to its one-component and high flexibility feauture.
- It shows high resistance to water ponding
- It is resistant to salts, bases, diluted acids and diluted sulfates.

Application Equipments

- High-pressure air compressor
- Two transfer pump (Dual transfer pump)
- Generator (power: 45 kw)

Application

Surface Quality: Surfaces should be clean, smooth, strong, free of any kind of dust, oil, dirt, rust, mold oil, detergent and similar anti-sticking materials. If there is segregation in concrete, defective and loose parts should be discarded and weak parts should be removed. If there is any crack or cavity on the floor or wall, it should be repaired with appropriate TEKNOREP 300 repair mortars. The TEKNOMER 650 application must be started at least 7 days later.

Surface Preperation: If there is a dilatation, the dilatation should be isolated using the TEKNOMER PAH TAPS and TEKNOMER 400 D before the application of TEKNOMER 650. The isolation of dilatations is more difficult and cost more when you do it later. All drain around and grooves should be insulated by using filters and Pah Taps (chamfering bands).The surface which will be insulated, must be dry. if there is any ponding or puddle, it should be removed. As a primer, for the concrete surface, the two-component, epoxy-based TEKNOBOND 300 should be applied with a brush or a roller between 200 - 400 grams / m2. Liner consumption varies according to the quality and absorbency of the concrete. Before curing the primer, make sure that the cords are hardened. At least 4 hours and maximum 48 hours should be waited for waterproofing. Teknomer 650, can be applied on primed surfaces by spraying with the suitable equipment) As it does not have UV resistance, it should be covered with Teknobond 650 P, heat insulation boards, protective plates or geotextile felt, etc. after the applicationCleaning of equipment: Immediately after application, before hardened, the equipment should be cleaned with Tekno Thinner P. After the product is hardened, it should be cleaned by mechanical methods.

Application Notes/Restrictions

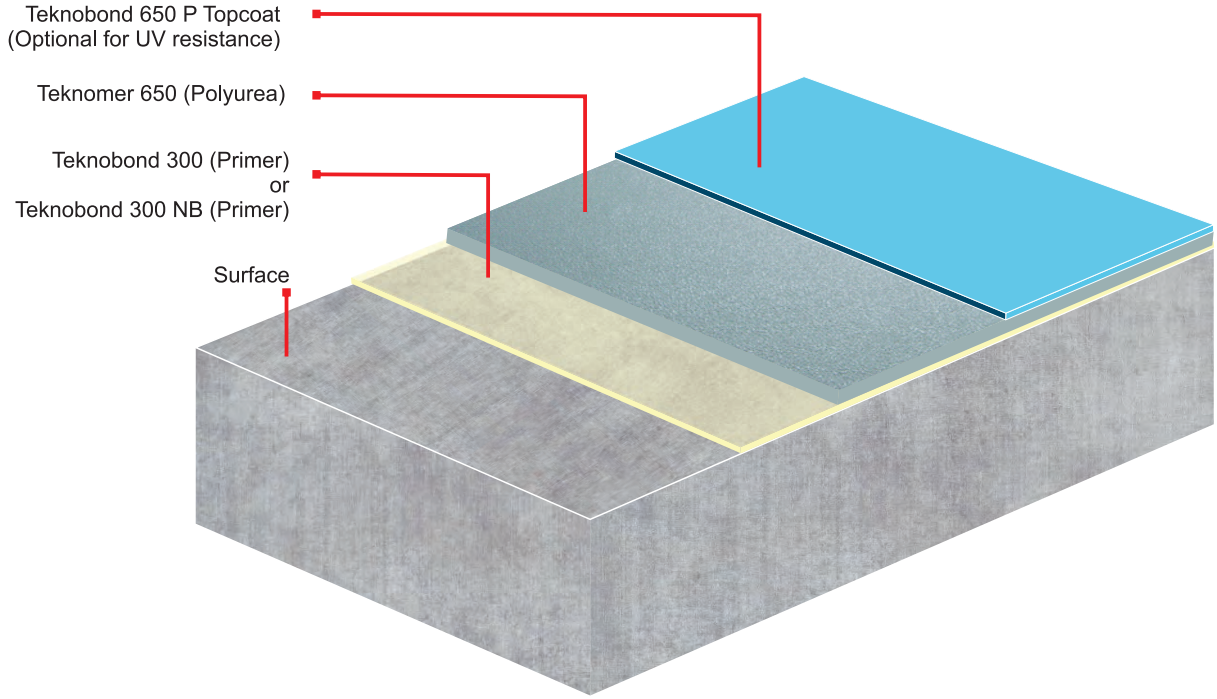
- Foreign materials should not be added.
- Shouldn't be applied in a rainy weather while it is raining.
- The product should not be diluted, it ia ready to use.
- Newly applied material / place, must be protected against weather conditions.

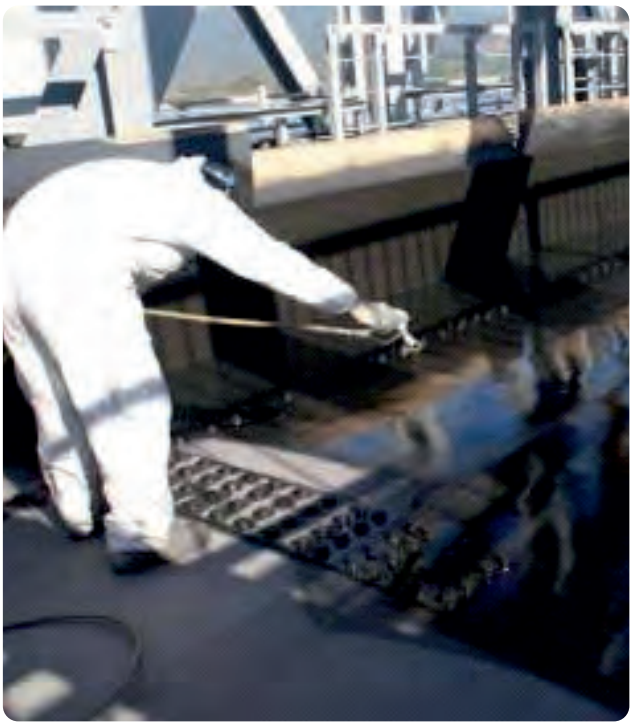
Technical Data

General Information		
Chemical structure	Pure Polyurea	
Appearance	Grey	
Package	420 kg set (200 kg A + 220 kg B)	
Density (kg/lt)	A Comp. : 1,0 gr/cm³ B Comp. : 1,10 gr/cm³	
Shelf life	12 months in unopened package in dry environment	
Application Information		
Consumption	1,00- 1,10 kg/m² (1 mm Film Thickness)	
Viscosity	A Comp. : 800 ± 200 mPas B Comp. : 1000 ± 200 mPas	
Solid Content	% 100	
Performance Information		
Adhesion Strength to Concrete	> 2 N/mm²	TS EN 4624
Steel Adhesion Strength	>1,5 N/mm²	
Tensile Strength	> 10 N/mm²	DIN 53504
Elongation at break	> %500	DIN 53504
Moisture tolerance	%5	
Ground Temperature to be Applied	-5°C/+40°C	
Service Temperature	-40°C/+120°C	

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

Polyurea Coating System





SZUTEST

CE 2765

Notified Body pursuant to the Construction Products Regulation
PermissionNo CPR-26-NB2765/03.05.2018 of
Ministry of Regional Development and Public Works

Certificate of Conformity of the Factory Production Control

№ 2765-CPR-0087

In compliance with Regulation (EU) № 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Products and systems for the protection and repair of concrete structures

Surface protection systems for concrete

(for list of products see Annex I to 2765-CPR-0087 that is an inseparable part of this certificate)
Intended uses – concrete protection and repair products in buildings and civil engineering works, Principle 5: Physical Resistance/Surface Improvement, Method 5.2: Impregnation, Principle 2: Moisture Control, method 2.1: hydrophobic impregnation, Principle 1: Protection against ingress, Method 1.1 Hydrophobic Impregnation, Principle 1: Protection against ingress, Method 1.3. Coating, Principle 1: Protection against Ingress 1.2 Impregnation, Principle 2: Moisture Control, Method 2.2: Coating; essential characteristics and their performances are according to Annex ZA.1 of the applicable standard and declared by the manufacturer

placed on the market under the name of

TEKNO YAPI KİMYASALLARI SAN. ve TİC. A.Ş
Deri O.S.B. Arıtma Cad. Gergef Sok. No:6 TUZLA, İSTANBUL

and produced in the manufacturing plant

Deri O.S.B. Arıtma Cad. Gergef Sok. No:6 TUZLA, İSTANBUL

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1504-2:2004

under system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements

This certificate was first issued on 21.01.2019 and will remain valid until 21.01.2021 or neither the harmonised standard, the construction product, the assessment and verification of constancy of performance methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

08.06.2020

Manager of SZUTEST Ltd

Asen Hristov

SOFIA LTD

The validity of certificate can be traced on http://public.szutest.com.tr/Certificate/Index

The certificate will be reissued each year after annual surveillance audit

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Annex I – List of surface protection products

Trade names of the products					
Teknobond 100	Teknobond 600 TIX	Teknobond 950	Teknoself	Teknoser Dekor	Teknolatex 100
Teknobond 110	Teknobond 600	Teknobond 960	Teknoself 500	Teknoser 300 SC	Teknolatex 200
Teknobond 300	Teknobond 650	Teknobond 970	Teknoser 100	Teknobond 350	Teknocila 430
Teknobond 500	Teknobond 650 P	Teknobond 980	Teknoser 300	Teknobonda 970 L	Teknocila 350
Teknobond 500 P	Teknobond 660	Teknobond AD	Teknoser Baskı	Teknobond 960 W	Teknomer 200 EX W
Teknobond 910	Teknolatex 300	Teknocila 500	Teknomer 200	Teknomer 600 2 K	Teknomer 200 W
Teknocila 300	Teknolatex 400	Teknolatex 500	Teknomer 200 EX	Teknomer 700 1 K	Teknomer 400
Teknocila 400	Teknolatex 450	Teknolatex 550	Teknomer 300 EX	Teknosil W	Teknomer 600 1 K
Teknokür 100	Teknolatex 600	Teknomer 100 2K EX	Teknomer 300	Teknosil	Teknomer 600 2K Bitüm
Teknokür 200	Teknocila 410	Teknomer 100 2K	Teknomer 400 2K	Teknomer 660 1K S	Teknomer 600 2K EX
Teknokür 400	Teknocila 420	Teknomer 100	Teknomer 400 Astar	Teknomer 660 1K W	Teknomer 400 W
Teknocila 350	Teknolatex 500	Teknolatex 550	Teknobond 955	Teknobond 955 W	Teknomer 600 1K UV
Teknomer 655	Teknomer 650	Teknoser Lityum	-	-	-

Placed on the market under the name of: TEKNO YAPI KİMYASALLARI SAN. ve TİC. A.Ş
Produced in the manufacturing plant: Deri O.S.B. Arıtma Cad. Gergef Sok. No:6 TUZLA, İSTANBUL

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