

TEKNOPUR 320-800

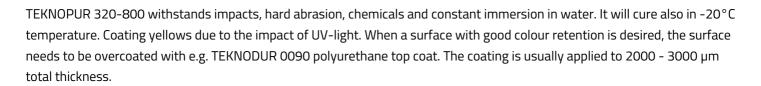
Elastomeric coating

TEKNOPUR 320-800 is a two-pack, solvent-free elastomeric coating.

Coating is applied by spraying.

TEKNOPUR 320-800 is based on pure polyurea.

Intended for use as waterproofing and coating for bitumen roofs and concrete structures.



Product has CE approval for protection of concrete structures.

TECHNICAL DATA

Certificates, approvals and classification	CE marking
Recommended substrate	Bitumen, Concrete, Geotextile, GRP (glass reinforced polyester), Plywood, Wood
Binder	Polyurea
Solids	Approx. 100% by volume
Total mass of solids	Approx. 1100 g/l
Volatile organic compound (VOC)	Approx. 0 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.
Practical spreading rate	Approx. 0.3 - 0.5 m²/l
Colours	Light grey, black, ~RAL 7031
Gloss (60°)	Gloss
Hardener	Comp. A: TEKNOPUR HARDENER 7247
Mixing ratio (A:B)	1:1 parts by volume
Gel time	Approx. 15 seconds
Storage	The storage stability is shown on the label. Store indoors in a cool and dry place and in a tightly closed can.
	The hardener reacts with air humidity. Opened can is to be carefully closed after the use and it is recommended to be used within 3 days from opening. Barrels are to be equipped with desiccant tubes.



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DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and application. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:

BITUMEN SURFACES: Remove from the surfaces any contaminants (e.g. grease and salts) that might be detrimental to painting. Surfaces to be painted must be dry and clean. Damaged parts are pretreated in accordance with the requirements placed by the substrate and the maintenance painting. Old bitumen membranes must be primed before application.

CONCRETE SURFACES: The concrete must be at least 4 weeks old and well-hardened so that all moisture from casting is bound and the surface dry. The moisture of the concrete must nor exceed 97 % as relative humidity or 4% by weight (by 45 / BLY 7).

Dense laitance is to be removed from the concrete by shot-blasting, sanding or by sand blasting. Brittle and powdery top layers are treated so that the solid concrete containing aggregate is exposed. Thereafter all cement dust is removed by vacuum cleaner or brush. The concrete surface must be clean of anything that might hinder the adhesion.

GRP (Glasfiber Reinforced Plastic) COMPOSITE: Pretreat the surface using mechanical abrasive sanding P60 - P80. Remove dust. Due to varying nature of composites adhesion test is always recommended before extensive using.

The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment.

More detailed instructions available in separate system descriptions.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

BITUMEN SURFACES: For priming can be used, for example, TEKNOPUR SEALER 100-00 or TEKNOPUR SEALER 200-00 polyurethane varnish.

CONCRETE SURFACES: The priming is done with TEKNOFLOOR PRIMER 310F or TEKNOFLOOR PRIMER 306F epoxy varnishes according to the instructions given in the Data sheet. The priming is also possible to be done with TEKNOPUR SEALER 100-00 or TEKNOPUR SEALER 200-00 polyurethane varnish.

Priming



Application method	Hot twin feed-spraying
	Product is applied by hot twin-feed spray, e.g. Graco Reactor or PMC PHX-2.
	The components are mixed in the pistol (e.g. Graco Fusion AP or PMC AP-2). The mixing chamber and nozzle are chosen according to the object to be painted.
	Recommended spraying pressure is 150-160 bar.
Application	For two component application the components must be kept at a temperature
	of +20 - +25° C before use so that they are fluid enough for the feed pumps. To
	ensure that the product is uniform the base needs to be stirred thoroughly before use.
	The ratio of the dosage pump must be 1 : 1. The heating shall be adjusted so
	that the temperature of the components is +75 - +80 °C. The hoses are heated
	to the same temperature. Temperature of the mixture in the nozzle must be at
	least +70°C.
	The film thickness is controlled from reference plate by dry film gauge. The
	recommended amount to be applied in one application is 1500 μm. Thicker films
	are applied in phases so that the film is left to cool down between layers.
	Vertical surfaces:
	On vertical surfaces the required thickness of paint layer is builded by spraying
	several bonded layers, in which case the coating underneath has time to harden
	to drip-free.
	The mixing ratio is ensured by controlling the pressure on the feed pumps and
	consumption of the components and also by measuring the hardness of the
	coating (Shore A, ISO 868).
	Directions given by the manufacturer of the twin-feed spray are to be followed
	when working.
Application conditions	The surface to be treated must be dry. During the application and drying period
	the temperature of the ambient air and the surface shall be above -10°C and the relative air humidity below 90%. The temperature of the surface to be
	treated must be at least +3°C above the dew point of the ambient air.

Overcoatable



Drying time +23°C / 50% RH
- touch dry Approx. 45 sec
- fit for light traffic Approx. 5 min
- fully cured Approx. 1 d

surface temperature	by itself	
	min.	max.
0°C	4 min	24 h
+10°C	2 min	24 h
+23°C	-	24 h

Cleaning TEKNOCLEAN 6496, TEKNOCLEAN 6481-00.

HEALTH AND SAFETY

Safety and precaution measures See safety data sheet.

Water vapour permeability

Dangerous substances

TEKNOPUR 320-800



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Declaration of Performance No. 0042

0809-CPR-1063 EN 1504-2:2004

Surface protection products - Coating

Physical resistance (5.1)

Chemical resistance (6.1)

Moisture control (2.2)

Compressive strength	Class II: ≥ 50 N/mm² (trafficking with steel wheels)	
Abrasion resistance	Requirement: Weight loss less than 3000 mg	
Capillary absorption and permeability to water	Requirement: w < 0.1 kg/m² x √h	
Resistance to severe chemical attack	Requirement: Reduction in hardness of less than 50 %	
Impact resistance	Class III: ≥ 20 Nm	
Adhasian strangth by pull off tost	Requirement: Crack-bridging system with trafficking: ≥ 1.5 (1.0)	
Adhesion strength by pull-off test	N/mm ²	
Crack bridging ability	Class A5: Width of the crack bridged > 2.5 mm, -10 °C	
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Class I, sd < 5 m

See safety data sheet

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