

TEKNOPOX AQUA PRIMER

5901 A

Epoxy Paint

PAINT TYPE	TEKNOPOX AQUA PRIMER 5901 A is a two-pack, water-borne epoxy paint.
USAGE	TEKNOPOX AQUA PRIMER 5901 A is used as a priming coat especially in nuclear power plants on mineral surfaces in the water-borne TEKNOPOX AQUA A Epoxy System. It can also be used alone when a matt finish is required. TEKNOPOX AQUA PRIMER 5901 A can be used on concrete, cement plaster and brick surfaces and also on particle board and hard board surfaces. On gypsum boards woven fibreglass fabric should be used to strengthen the surface.
SPECIAL PROPERTIES	The paint coat withstands water, oil, petrol and chemicals as well as abrasion. The volatile component in TEKNOPOX AQUA PRIMER 5901 A is water. Thus the use of this paint does not involve health hazards or fire risks associated with solvent-borne paints.
APPROVALS	TEKNOPOX AQUA PRIMER 5901 A fulfils the requirements stated in report STUK-YTO-TR 210 issued by STUK - Radiation and Nuclear Safety Authority, Finland. The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".

TECHNICAL DATA

Mixing ratio	Base (Comp. A): Hardener (Comp B): TEKNOPOX AQUA PRIMER 5901 A HARDENER	2 parts by volume 1 part by volume
Pot life, +23 °C	2 h	
Solids	50 ±2% by volume	
Total mass of solids	abt. 870 g/l	
Volatile organic compound (VOC)	abt. 40 g/l	
Practical spreading rate	The values depend on the surface roughness and required filling degree. Spray application on cast concrete. The dry film thickness on a smooth surface is 120 - 200 µm. Spreading rates: 1. application 4 - 6 m ² /l 2. application 5 - 8 m ² /l Corresponding application with a roller requires three applications.	
Drying time, +23°C / 50% RH (dry film 60 µm)	after 8 h	
- dust free (ISO 9117-3:2010)	after 12 h	
- touch dry (ISO 9117-5:2012)	after 7 d. Low temperature and/or high relative humidity prolong the curing time, which should be taken into account when the area is put into service. E.g. at +10°C the curing times are doubled.	
- fully cured		

Overcoatable

surface temperature	by itself, with TEKNOPOX AQUA 5902 A or TEKNOPOX AQUA FILL 5900 A	
	min.	max.*
+10°C	after 2 d	after 1 month
+23°C	after 16 h	after 1 month

* Maximum overcoating interval without roughening.

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

Thinner	Water
Clean up	Water and emulsifying washing liquid TEKNOSOLV 9506
Finish	Matt
Colours	Off-white
Radiation resistance and decontamination	The coating system withstands well radioactive radiation and is easy to decontaminate (statement No. VTT-R-002SS-20 by VTT - Technical Research Centre of Finland).
SAFETY MARKINGS	See Safety Data Sheet.

DIRECTION FOR USE

Surface preparation

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

NEW CONCRETE SURFACE: The concrete must be at least 4 weeks old, well-hardened and solid. The water content of the top layer must not exceed 4% by weight. Dense laitance is removed from steel-trowelled concrete by mechanical surface grinding or sweep-blasting. Brittle and powdery top layers are treated so that the solid concrete containing mineral aggregates is exposed. Thereafter all cement dust is removed by vacuum cleaner or brush.

On the surface of the concrete must not be anything which prevents the adhesion.

OLD CONCRETE SURFACE: Uncoated, greasy surfaces are cleaned by emulsifying washing liquid and rinsed well. If necessary, the surfaces are sweep-blasted.

BRICK SURFACES: Remove with care lime and dust by brushing and vacuum cleaning.

PREVIOUSLY PAINTED SURFACES: Check that the old, overcoatable paint has got good adhesion to the surface. Remove loose or flaking paint. It is recommended that old painted surfaces are to be roughened by sanding. Finally wash and rinse the surface.

Stopping, smoothing

Filling cavities can be done with solvent-free TEKNOPOX FILL A Stopper. When needed the stopping up between coats and overall stopping up is done with water-borne TEKNOPOX AQUA FILL 5900 A Epoxy Stopper.

Application conditions

The surface to be painted must be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +10°C and the relative air humidity below 90%. Additionally the temperature of the surface to be painted and the paint must be at least 3°C above the dew point of the ambient air.

Mixing of the components

The base must be stirred until it is homogeneous before specifying the amount of the components. The base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel for 2 minutes. It is recommended to use a slow-rotating drilling machine equipped with a stirrer for mixing. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

Application

Apply the paint with airless spray (nozzle size 0.017 - 0.021"), or with brush and roller. Clean all equipment immediately after use.

Top coating

When a gloss finish is required, apply the top coat with TEKNOPOX AQUA 5902 A Epoxy Paint.


ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

MUST NOT FREEZE.

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CE MARKING

	
0809	
Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 20 Declaration of Performance No. 0045	
0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coating Physical resistance (5.1) Chemical resistance (6.1)	
Abrasion resistance	Requirement: Weight loss less than 3000 mg
Capillary absorption and permeability to water	Requirement: $w < 0,1 \text{ kg/m}^2 \times \sqrt{h}$
Resistance to severe chemical attack, Class I	Requirement: Reduction in hardness of less than 50 %
Adhesion strength by pull-off test	Requirement: Rigid system without trafficking: $\geq 1,0 (0,7) \text{ N/mm}^2$
Dangerous substances	See safety data sheet

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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