

TEKNOPOX AQUA 5902 A

Epoxy Paint

PAINT TYPE	TEKNOPOX AQUA 5902 A is a two-pack, water-borne epoxy paint.	
USAGE	<p>TEKNOPOX AQUA 5902 A is used for interior walls whenever the paint is required to be moisture and chemical resistant and also dense, hygienic and easy to wash. TEKNOPOX AQUA 5902 A is intended especially for use in nuclear power plants on surfaces made of concrete, brick and cement plaster.</p> <p>It is recommended to use TEKNOPOX AQUA PRIMER 5901 A Epoxy Paint as a primer on walls and ceilings.</p>	
SPECIAL PROPERTIES	<p>TEKNOPOX AQUA 5902 A provides a gloss, hard and abrasion resistant film. It withstands water, petrol, oil, grease, even strong lye solutions, splashes of solvents and temporary effect of weak acids. The volatile component in TEKNOPOX AQUA 5902 A is water. Thus the use of TEKNOPOX AQUA 5902 A does not involve health hazards or fire risks associated with solvent-borne paints.</p>	
APPROVALS	<p>TEKNOPOX AQUA 5902 A fulfils the requirements stated in report STUK-YTO-TR 210 issued by STUK - Radiation and Nuclear Safety Authority, Finland.</p> <p>The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".</p>	
TECHNICAL DATA		
Mixing ratio	Base (Comp. A): Hardener (Comp B): TEKNOPOX AQUA HARDENER 5902 A	3 parts by volume 1 part by volume
Pot life, +23 °C	2 h	
Solids	52 ±2% by volume	
Total mass of solids	abt. 850 g/l	
Volatile organic compound (VOC)	abt. 40 g/l	
Practical spreading rate	<p>The values depend on the surface roughness.</p> <p>The dry film thickness of two coats of paint on a smooth surface is 120 - 200 µm.</p> <p>1. application 4 - 6 m²/l 2. application 6 - 9 m²/l</p>	
Drying time, +23°C / 50% RH (dry film 60 µm)		
- dust free (ISO 9117-3:2010)	after 8 h	
- touch dry (ISO 9117-5:2012)	after 12 h	
- fully cured	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.	
Overcoatable		
	by itself	
surface temperature	min.	max.*
+10°C	after 2 d	after 1 month
+23°C	after 1 d	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	
Finish	Gloss	
Colours	<p>White</p> <p>Other colours with some restrictions.</p>	
Radiation resistance and decontamination	<p>The coating system withstands well radioactive radiation and is easy to decontaminate (statement No. VTT-R-00255-20 by VTT - Technical Research Centre of Finland).</p>	
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

PAINTING OF WALLS AND CEILINGS: Priming with TEKNOPOX AQUA PRIMER 5901 A Epoxy Paint is recommended for new concrete surfaces. The top coat is applied with TEKNOPOX AQUA 5902 A.

Apply the top coat the following day using undiluted TEKNOPOX AQUA 5902 A sufficiently. When using a roller the work is done very carefully so that the layer is even. **DO NOT USE A ROLLER IF THE PAINT IS PARTLY DRIED.** Painting the surface after drying for over 20 - 30 minutes can cause the colour to change.

Apply the paint by brush, short-piled roller or airless spray. Use airless spray nozzle 0.015 - 0.018".

The painting equipment must be cleaned immediately after use with water.


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. 0046	
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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