

TEKNOPOX AQUA V A

Epoxy Paint

PAINT TYPE	TEKNOPOX AQUA V A is a two-pack, water-borne epoxy paint.												
USAGE	<p>TEKNOPOX AQUA V A is used for interior walls whenever the paint is required to be moisture and chemical resistant and also dense, hygienic and is easy to wash. TEKNOPOX AQUA V A is intended especially for use in nuclear power plants on surfaces made of concrete, brick, asbestos cement and cement plaster surfaces, as well as on surfaces previously painted with different types of paints, provided that the substrate is solid and compact enough. The paint can also be applied on damp surfaces.</p> <p>It is recommended to use TEKNOPOX AQUA V TIX A Epoxy Paint as a primer on walls and ceilings.</p>												
SPECIAL PROPERTIES	<p>TEKNOPOX AQUA V 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. TEKNOPOX AQUA V A fulfils the requirements stated in report STUK-YTO-TR 210 issued by STUK - Radiation and Nuclear Safety Authority, Finland. The system is thus suitable for use in nuclear power plants.</p> <p>The volatile component in TEKNOPOX AQUA V A is water. Thus the use of TEKNOPOX AQUA V A does not involve health hazards or fire risks associated with solvent-borne paints.</p>												
APPROVALS	The paint 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 V A HARDENER	4 parts by volume 1 part by volume											
Pot life, +23 °C	2 h												
Solids	40 ±2% by volume												
Total mass of solids	abt. 740 g/l												
Volatile organic compound (VOC)	abt. 25 g/l												
Practical spreading rate	<p>The values depend on the surface roughness.</p> <p>1. application 4 - 6 m²/l 2. application 7 - 9 m²/l</p>												
Drying time at +23°C / 50% RH - dust free (ISO 9117-3:2010) - touch dry (DIN 53150:1995) - fully cured	<p>after 7 h after 1 d after 5 - 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.</p>												
Overcoatable	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="text-align: left;">surface temperature</th> <th colspan="2">by itself</th> </tr> <tr> <th>min.</th> <th>max.*</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">+10°C</td> <td>after 2 d</td> <td>after 9 months</td> </tr> <tr> <td style="text-align: left;">+23°C</td> <td>after 1 d</td> <td>after 9 months</td> </tr> </tbody> </table> <p>* Maximum overcoating interval without roughening.</p> <p>Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.</p>		surface temperature	by itself		min.	max.*	+10°C	after 2 d	after 9 months	+23°C	after 1 d	after 9 months
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Thinner	Water												
Clean up	Water and synthetic washing agent												
Finish	Gloss												
Colours	White and clear varnish Other colours with some restrictions.												
Radiation resistance and decontamination	The paint withstands well radioactive radiation and is easy to decontaminate (statement No. 1480/28/05/RTE 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: 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 emulsion wash or synthetic washing agent and rinsed well. If necessary, the surfaces are sweep-blasted.

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

PREVIOUSLY PAINTED SURFACES: Check that the old paint is well attached to the surface. Remove loose or flaking paint. TEKNOPOX AQUA V A can be applied onto surfaces previously painted with other paint types. It is recommended that old painted surfaces are to be roughened by sanding. Finally wash and rinse the surfaces.

Stopping, smoothing

Water-borne TEKNOPOX AQUA V FILL A Stopper can be used for filling and stopping-up. Filling cavities can be done with solvent-free TEKNOPOX FILL Stopper. The stopping can also be done with a cement stopper strengthened with epoxy varnish, which is prepared by adding 4 - 5 Vetonit Plaster Powder S06 to 1 litre of TEKNOPOX AQUA V A.

Mixing of the components

Before painting the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. Stir the base before measuring so that it is homogenous. Mixing by machine is recommended, e.g. a slow-rotating hand-drill equipped with a mixer. The best mixing result is achieved when the components are mixed well together and left to stand for 10 - 15 minutes. Mix the paint again before use. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

THE READY MIXTURE MUST BE USED WITHIN THE POT LIFE, MIXTURES OLDER THAN THIS ARE UNFIT FOR USE.

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 80%.

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.

Application

PAINTING OF WALLS AND CEILINGS: Priming with TEKNOPOX AQUA V TIX A Epoxy Paint is recommended for new concrete surfaces. The top coat is applied in two coats with TEKNOPOX AQUA V A Epoxy Paint.

Apply the top coat the following day using undiluted TEKNOPOX AQUA V 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 mohair roller or airless spray. Use airless spray nozzle 0.015 - 0.018".

Clean all equipment immediately after use.


ADDITIONAL INFORMATION

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

MUST NOT FREEZE.

Continues...

CE MARKING

	
0809	
Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 13 Declaration of Performance No. 0031	
0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coating 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	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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