DATA SHEET 910
14 16.07.2019

TEKNOPOX AQUA V
Epoxy Paint

PAINT TYPE

TEKNOPOX AQUA V is a two-pack, water-borne epoxy paint.

USAGE

TEKNOPOX AQUA V 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. The paint is suitable to use in the food-processing industry's storage rooms, in production areas and laboratory areas. Also for painting the humid areas in hospitals wherever a high standard of hygiene is required.
TEKNOPOX AQUA V can be used on 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 applied on damp surfaces.
It is recommended to use TEKNOPOX AQUA V TIX Epoxy Paint as a primer on walls and ceilings.

SPECIAL PROPERTIES

TEKNOPOX AQUA V provides a gloss, hard and abrasion resistant film. It withstands water, petrol, oil, grease, strong lye solutions, splashes of solvents and temporary affects of weak acids.

The volatile component in TEKNOPOX AQUA V is water. Thus while using TEKNOPOX AQUA V the paint excludes fire and health hazards connected with solvent-borne paints. The product is suitable for use in food preparation and packaging environments (Smithers Rapra, Certificate Number GC0075). The antimicrobial efficiency has been tested according to standard ISO 22196.

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):	4 parts by volume
Hardener (Comp B): TEKNOPOX AQUA V HARDENER	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

The values depend on the surface roughness.

1. application 4 - 6 m²/l
2. application 7 - 9 m²/l

Drying time at +23°C / 50% RH

- **dust free (ISO 9117-3:2010)** after 7 h
- **touch dry (ISO 9117-5:2012)** after 1 d
- **fully cured** 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.

Overcoatable

	by itself	
surface temperature	min.	max.*
+10°C	after 2 d	after 9 months
+23°C	after 1 d	after 9 months

* 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 synthetic washing agent

Finish

Gloss

Colours

White and clear varnish
Other colours with some restrictions.

SAFETY MARKINGS

See Safety Data Sheet.

PTO

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 has got good adhesion to the surface. Remove loose or flaking paint. TEKNOPOX AQUA V 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 surface.

Stopping, smoothing

Water-borne TEKNOPOX AQUA V FILL Stopper or solvent-free TEKNOPOX FILL Stopper can be used for filling and stopping-up. 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.

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 Epoxy Paint is recommended for new concrete surfaces. The top coat is applied in two coats with TEKNOPOX AQUA V Epoxy Paint.

Apply the top coat the following day using undiluted TEKNOPOX AQUA V 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 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

CE

0809

Teknos Oy
Takkatie 3, P.O. Box 107
FI-00371 Helsinki, Finland
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Declaration of Performance No. 0030

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: $w < 0,1\ kg/m^2 \times \sqrt{h}$
Resistance to severe chemical attack	Requirement: Reduction in hardness of less than 50 %
Adhesion strength by pull-off test	Requirement: Rigid system without trafficking: $\geq 1,0\ (0,7)\ N/mm^2$
Dangerous substances	See safety data sheet

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