

# TEKNOPOX AQUA 5902 –EPOXY SYSTEM

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Intended to be used as a protective coating system for concrete walls. The system consists of chemically curing water-borne two-pack epoxy paints.

TEKNOPOX FILL	Filling of cavities
TEKNOPOX AQUA PRIMER 5901	1 x 60 - 100 µm
TEKNOPOX AQUA FILL 5900	partial smoothing
TEKNOPOX AQUA PRIMER 5901	1 x 60 - 100 µm
TEKNOPOX AQUA 5902	1 x 60 - 100 µm

## USAGE

For walls whenever the coating system is required to be moisture and chemical resistant and also dense, hygienic and easy to wash.

## 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.

The technical data of the paints are given in the table below and in the product data sheets.

PTO

**Maintenance** Wash the old painted surface clean. Sand glossy painted surfaces matt and remove the dust. Smooth any irregularities in the surface with TEKNOPOX AQUA FILL 5900 epoxy stopper. Paint the surfaces with the paints of the system to the original film thickness.

### Technical Data

Paint	TEKNOPOX FILL Epoxy Stopper		TEKNOPOX AQUA PRIMER 5901		TEKNOPOX AQUA FILL 5900		TEKNOPOX AQUA 5902	
Data Sheet No.	917		2435		2437		2434	
Paint Type	two-pack solvent-free stopper		two-pack water-borne epoxy paint		two-pack water-borne epoxy stopper		two-pack water-borne epoxy paint	
Colours	light grey		off-white		light grey		by agreement	
Finish	matt		matt		matt		gloss	
Thinner	clean up: TEKNOSOLV 9506		water		water		water	
Methods of application	steel trowel		airless spray, brush, roller		spatula		airless spray, brush, roller	
Airless spray nozzle	-		0.017 – 0.021"		-		0.015 – 0.018"	
Application conditions								
- min. temperature °C	+10		+10		+10		+10	
- max. relative humidity %	80		90		80		90	
Safety markings	See Safety Data Sheet		See Safety Data Sheet		See Safety Data Sheet		See Safety Data Sheet	
Volume solids %	100		50 ±2		60 ±2		52 ±2	
Total mass of solids g/l	abt. 1000		870		abt. 1200		abt. 850	
Volatile organic compound (VOC) g/l	abt. 0		40		abt. 10		abt. 40	
Recommended film thickness								
- wet µm	-		120 – 200		-		115 – 192	
- dry µm	-		60 – 100		-		60 – 100	
Theoretical spreading rate m <sup>2</sup> /l	-		5 – 8.3		-		5.2 – 8.7	
Drying time, +23°C / 50 % RH								
- dust free (ISO 9117-3:2010)	(dry film 60 µm)		after 8 h		after 1 h 30 min		after 8 h	
- touch dry (ISO 9117-5:2012)	after 6 h		after 12 h		after 2 h		after 12 h	
Overcoatable, 50% RH	by itself or with TEKNOPOX AQUA PRIMER 5901:		by itself, with TEKNOPOX AQUA 5902 or with TEKNOPOX AQUA FILL 5900:		by itself, with TEKNOPOX AQUA PRIMER 5901 or with TEKNOPOX AQUA 5902:		by itself:	
	min.	max.*	min.	max.*	min.	max.*	min.	max.*
<b>+10°C</b>	as soon as the stopper is set	after 2 d	after 2 d	after 1 month	after 2 d	after 1 month	after 2 d	after 1 month
<b>+23°C</b>	as soon as the stopper is set	after 24 h	after 16 h	after 1 month	after 16 h	after 1 month	after 1 d	after 1 month

\*Maximum overcoating interval without roughening.