POLYURETHANE COATING AND MASS SYSTEM

L47

3 25.3.2014

Coating system for treating concrete surfaces. Epoxy varnish is used for priming and solvent-free, self-levelling polyurethane coating for top coating. Treatment systems 66501 and 66601 according to MaalausRYL 2012 (Finnish handbook “MaalausRYL 2012” concerning general quality requirements and treatment systems of paint work).

Code MaalausRYL 2012 System code according to PSK 2703 Pretreatment code according to PSK 2703 Paint	L47/a 66501 FS3.2 PUR500-D/GD2 GD2	L47/b 66601 FS4.2 PUR2000-D/GD2 GD2
TEKNOFLOOR PRIMER 310F epoxy varnish	priming	priming
TEKNOFLOOR 660F polyurethane coating	1 x 500 µm	1 x 2 mm
Total film thickness	abt. 500 µm	abt. 2 mm

Painting of damp concrete

TEKNOFLOOR PRIMER 306F epoxy varnish must be used for priming if the moisture of the concrete surface to be painted exceeds 97 % as relative humidity.
In that case the system codes according to PSK 2703 are:
L47/a: FS3.2 EPPUR500-W/GD2
L47/b: FS4.2 EPPUR2000-W/GD2.

USAGE

Industrial floors where floor surface must be elastic and very resistant to mechanical strain.

SURFACE PREPARATION

Surface preparation method is usually grinding or shot-blasting. Detailed instructions can be found in the technical data sheets of the mentioned products.

APPLICATION

The surface to be painted must be clean and dry (the moisture of the concrete must not exceed 97% as relative humidity or 4% by weight). The base of the coating must be mixed until homogenous before use. The base and the hardener are carefully mixed in right proportion given in the table on page 2 and on the label of the paint. Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time.

The technical data of the paints and varnishes are given in the table on page 2 and in the data sheets of the products.

PTO

TECHNICAL DATA

Paint	TEKNOFLOOR PRIMER 310F epoxy varnish		TEKNOFLOOR 660F polyurethane coating	
Technical data sheet no.	1202		1568	
Paint type	solvent-free epoxy varnish		solvent-free polyurethane coating	
Mixing ratio - base parts by vol. - hardener parts by vol.	 2 1		 4 1	
Pot life, +23°C - kept in the vessel min - poured out on the floor min	 10 20		 10 30	
Solids % by volume	abt. 100		abt. 100	
Total mass of solids g/l	abt. 1100		abt. 1400	
Volatile organic compound (VOC) g/l	abt. 0		abt. 0	
Spreading rate m²/l	3 - 6		0.5 - 2	
Drying time - fit for light traffic, +23°C - overcoatable	after 16 h by itself or with TEKNOFLOOR 660F		after 16 h -	
	+10°C	**+23°C**		
min.	after 18 h	after 4 h		
max.	after 48 h	after 24 h		
Thinner, clean up (the coating or mass is not to be thinned!)	TEKNOSOLV 9506 or TEKNOSOLV 9515		TEKNOSOLV 9521	
Colours	-		Certain colours of the RAL Colour Card	
Finish	full gloss		full gloss	
Methods of application	brush, roller		dentated trowel, adjustable trowel, roller	
Application conditions - min. temperature °C - max. relative humidity %	 +10 80		 +10 80	

MAINTENANCE PAINTING

Old coating is cleaned from dirt and grease and sanded matt. Cavities and crevices are filled. Sections where the coating has worn off or detached, are pretreated and primed over again. The floor is coated once according to the instructions in the technical data sheet. Treatment systems 66501 and 66601 according to MaalausRYL 2012.