

Nanten SL AR Epoxy Coating

Chemical and abrasion-resistant self-leveling floor coating

PRODUCT TYPE

Nanten SL AR Epoxy Coating is two-component solvent-free self-leveling abrasion resistant epoxy coating for old and new concrete floors. The compound's content of volatile organic compounds (VOC) is very low. The coating surface is hygienic and easy to clean. The product has very good chemical and good UV resistance. The hardening is faster than normal even at low temperatures. Painting supplies group 52.2 (RT-classification).

APPLICATION

Production and warehouse floors in process and food processing industries subjected to high chemical and mechanical stress, laboratories, hospitals and other demanding applications.

CHARACTERISTICS

Very good mechanical and chemical resistance. The product is resistant to constant contact with oils, grease, fuel, normally used detergents, salts, and to temporary contact with acids and alkalis used for industry applications. Exposure class depending on the film thickness (2.0 to 4.0 mm) BC4-BC6 (by 54/BLY 12).

TECHNICAL DATA

Colours

Nanten standard color chart tones. Recommended Nanten tones are 310 green or 500 red.

Gloss group Glossy.

Coverage

Consumption depending on the film thickness is 1,3 to 2,4 l/m².

Mixing ratio

(component A) 3 parts by volume of resin, and (component B) 1 part by volume of hardener.

Package

Component A in 15 l steel container, and Component B in 5 l plastic container.

Application time (at +20°C)

About 20 to 30 min when poured on floor. Higher temperature reduces the application time.

Curing time

Try to touch 6h (+ 25°C) and 11h (+ 15°C). Dry, suitable for light traffic, about 12 h (+ 25°C) and > 24 h (+ 15°C). Fully cured 7 d.

Application method

Spreading with serrated steel trowel or levelling trowel.

Thinning Продукт не разбавлять.

Tools clean-up

Tool cleaning product, such as ethyl acetate.

Storage

+5°C ... +25°C, storage time up to 6 months. Store in warm, tightly sealed original containers.

TECHNICAL CHARACTERISTICS

Film thickness

Depending on stress conditions, usually 2.0 to 4.0 mm. Density (+25°C) 1.37... 1.40 kg/l, depending on the used amount of color paste.

Solids content

Approx. 100% by vol Final hardness Shore D 83.

Fire rating BFL -s1, SFS-EN 13501-1

VOC (calculated)

Ready-mixed compound VOC 60 g/l. EU VOC 2004/42/EC (cat A/j) max. 500 g/l (2010).

USAGE INSTRUCTIONS

Requirements for base material and application conditions

Ensure the concrete minimum strength class C25/30 and wear durability class 3. The concrete relative humidity should be below 95% and the surface temperature at least 3°C above the air dew point. Air, surface and coating temperature should be more than +15°C and relative humidity should be below 80%.

Surface preparations

New concrete floors

Cement base and any non-cured cement is removed by grinding, blasting or milling. Any loose material is removed and cement dust is carefully vacuumed.

Existing concrete floors

Cement base and deteriorated concrete is removed by grinding, blasting or milling. Any loose material is removed and the surface is carefully vacuumed. Dirty floors should be washed and rinsed with synthetic detergent base before any other treatment. Old paint film must be completely removed.

Priming

Priming with Nanten HM Epoxy. On damp concrete surfaces, with relative humidity over 95%, use Nanten M Primer suitable for damp concrete. The primer must block all pores of the concrete surface, to ensure uniform film which is dense and intact.

Patching

Small dents and cracks are cleaned and filled with putty consisting of eg HM Epoxy and fine sand. For larger fillings and adjustments, use the filling/smoothing compound consisting of Nanten SL Epoxy coating and filler (0.1 to 0.6 mm).

Mixing the compound components

Premix the SL AR Epoxy component A and component B in their original containers, evaluate the required compound amount, taking into account the area to be coated and the application time. Mix the components right proportions, using low speed mixer for about two minutes, avoiding mixing air to the compound. Add the required amount of selected filler and continue to mix

for about one minute, including the corners of the container.

Application

If the priming is older than two days, the application surface must be roughened and the waste removed. The mixed coating compound is poured on the floor on continuous trail, and spread by trowel to the layer with desired thickness. After application, air is removed from surface by rolling with needle roller immediately after spreading. Consumption for 2 mm film is about 1.3 l of epoxy and about 1.4 kg of filler per m2.

Care of coated floors:

See [www.nanten.fi / products / cleaning and care instructions](http://www.nanten.fi/products/cleaning_and_care_instructions).

APPLICATION SAFETY

See [www.nanten.fi / products / safety data sheets](http://www.nanten.fi/products/safety_data_sheets)

CE		
Nanten Oy Teollisuustie 6, FI-04300 Tuusula		
0809 -CPR- 1037 EN 1504-2:2004		
Protection and repair agent for concrete structures – Coating		SL AR Mitatut arvot
Abrasion resistance	mass loss < 3000	143 mg
Capillary absorption and permeability to water	w < 0,1 kg/m2 x	0,01 kg
Impact resistance	class III: ≥ 20 Nm	30 Nm
Adhesion strength by pull-off test		4,9N/mm
	≥ 2,0 N/mm2	
Reaction to fire B(fl) - s1	Bfi-s1	
Liukastumisvastus	class II > 40	98
Compression strength		

Although the technical specifications of the product description are based on our best knowledge and experience, all the above information must be taken as a guide in all cases. The user must ensure the suitability of the product for the application area. If the instructions are not followed, the user is solely responsible for the possible damages and consequences