

Nanten SL Epoxy Coating

Wear-resistant self-levelling multi-purpose floor coating

PRODUCT TYPE

Nanten SL Epoxy Coating is two-component solvent-free self-levelling abrasion resistant epoxy coating for old and new concrete floors. The compound's content of volatile organic compounds (VOC) is very low. The coated surface is hygienic, easy to clean and does not contain biocides or ingredients contributing antimicrobial growth. It has good UV-resistance and its hardening is faster than normal even at low temperatures. Painting supplies group 52.2 (RT-classification).

APPLICATION

Industrial and warehouse floors subjected to hard to medium duty use in public buildings, hospitals, laboratories, shops, schools, car parks and similar applications.

CHARACTERISTICS

normally used detergents, salts, and to temporary contact with weak acids and alkalis. Exposure class depending on the film thickness (0.5 to 4.0 mm) BC2-BC4 (by 54/BLY 12).

TECHNICAL DATA

Colours

Standard Nanten colour chart colours, stock colours Nanten 257, 241 and 265. Also tintable with NCS ja RAL chart colours.

Gloss group Glossy.

Coverage

Consumption with filler for 2 mm film thickness is about 1.3 l per 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 4 h (+25°C) and 8 h (+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.

Dilution

Do not thin.

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 0.5 to 4.0 mm.

Density (at 25°C)

1.37 ... 1.40 kg/l, depending on the used amount of colour 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 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 compound is poured on the floor as a bound or 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 1.5 kg of filler per m2.

Care of coated floors:

See www.nanten.fi / products / cleaning and care instructions.

APPLICATION SAFETY

See www.nanten.fi / products / safety data sheets

CE		
Nanten Oy Teollisuustie 6, FI-04300 Tuusula		
13		
0809 -CPR- 1037		
EN 1504-2:2004		
Coating/screed		SL Measured values
Abrasion resistance	mass loss < 3000 mg	120 mg
Capillary absorption and water permeability	w < 0,1 kg/m ² x h 0.5	0,01 kg
Impact resistance	class III: ≥20 Nm	20 Nm
Adhesion strength by pull-off test	≥ 2.0 N/mm ²	3,8 N/mm ²
Reaction to fire B(fl) - s1	Bfl-s1	Bfl-s1
Slip /Skid resistance	class II > 40	107

Even though the technical details of the product description are based on our best knowledge and experience, the above-named information should always be regarded as indicative. The user should make sure that the product is suitable for the application. If working contrary to these instructions, the user is solely responsible for any possible resulting damages and consequences.

