

Nivapol Polem A SD

Flexible membrane

Product description

Polem A SD is a solvent free, low viscosity, two component polyurethane resin based sub membrane and porefiller.

Fields of application

Polem A SD is designed to be used as a solid, elastic substrate and porefiller prior to the application of flexible flooring Systems. Please refer to the individual system data sheets. A functioning primer must be installed prior on the substrate and known to be effective.

Typical areas of installation:

- Hospitals and nursing homes
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

Features and benefits

- Low emission
- Soft, elastic
- Very high walking comfort
- Sound absorbing (12 dB)
- Crack bridging
- Easy to process
- Excellent leveling properties
- Can be applied on asphalt or other surface, if used with a suitable primer

Substrate preparation

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish.

The tensile strength of the substrate should exceed 1.5MPa. The residual moisture content should be less than 4%.

Polem A SD should be applied when substrate temperatures are constant or falling to minimise the risk bubble and void formation due to expansion of air within the substrate when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced

by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times.

The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

Application

Polem A SD is supplied in prepacked units. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20°C. Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300 rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape

the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.

Polem A SD is applied by a 4 mm tooth squeegee and finished by spike roller.

Protect the fresh layer from water and condensation which can cause a white bloom and tackiness which will be detrimental to subsequent layers.

Contact details

Nivapol Technology ApS
Tvaervejen 15
5580 Noerre Aaby
Denmark
Telephone: +45 70214888
e-mail: info@nivapol.com
Webpage: www.nivapol.com

Technical data

Mixing ratio A:B	By weight 3.3 : 1
Mixed density at 23°C	0.97 g/cm ³
Mixed viscosity at 20°C	2,000 mPas
Working time at 23°C	30 min.
Ready for traffic at 23°C	7 – 24 hours
Fully cured at 23°C	3 days
Substrate temperature	min 5°C max 30°C
Max relative humidity at 20°C	max 85%

Technical data cured material

Data	Methods	Result
Thickness		0.5 – 4 mm
Shore D Hardness	DIN 53505	65 (14 days / +23°C)
Tensile Strength +23°C)	DIN 53504	1.7 N/mm ² (14 days /
Elongation at Break	DIN 53504	100% (14 days / +23°C)
Crack bridging ability		Complies
Temperature resistance		Max 90°C
Waterpenetration		impervious
Chemical resistance		see separate data
Puncture Resistance	ASTM E154	Min 150 KGF
Adhesion to concrete	BS/EN 24614	Complies
Abrasion resistance (Taber)	EN 1504-2	<3000mg
Impact resistance	EN 1504-2	Class II
Fire classification	EN 1504-2	Efl

The above figures are intended as a guide only and should not be used as a basis for specifications