CASE

Formulated system

Nivapol Polem A SLR

Flexible floor coating

Product description
Polem A SLR is a two component, solvent free and low emission, self levelling, floor coating which cures to a tough yet soft and elastic material with a hard wearing, easy to maintain surface and a tolerance to a wide range of chemicals. Polem A SLR is supplied ready for use but can be further extended with Quartz.

Fields of application
Polem A SLR is used as a body coat and forms the basis of a floor coating system which find use in applications such as:
- Hospitals and old peoples homes
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

Please refer to the individual system data sheets.

Features and benefits
- Low emission
- Soft, elastic
- High degree of walking comfort
- Sound absorbent
- Hard wearing
- Crack bridging
- Easy to apply
- Excellent self-levelling properties
- Can be applied to asphalt

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 SLR 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 SLR is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND.
Mix with a mechanical drill and paddle at a very low speed (approx. 300 rpm) for at least 3 minutes.
Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER.
After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute. If Polem A SLR is to be extended with sand, the sand should be added to the mixed components under continuous mixing until uniformly distributed.
Polem A SLR is poured onto the prepared substrate and spread with a notched trowel, or spreader (rubber or steel). Bubbles should be removed by rolling with a spiked roller.
The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum.
The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least 8 hours after application (at 15° C).

Packaging Polem A SLR is supplied in 20 kg, 200 kg or 1000 kg units.

Shelf life Minimum 12 months stored in original containers under dry conditions at a temperature between 15 – 20°C. Do not expose to direct sunlight.

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 5.7 : 1
Mixed density at 23°C	1.37 g/cm^3
Mixed viscosity at 20°C	2000 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		1.5 – 2.0 mm
Shore D Hardness	DIN 53505	80 (14 days / +23°C)
Tensile Strength	DIN 53504	7.0 N/mm^2 (14 days / +23°C)
Elongation at Break	DIN 53504	150% (14 days / +23°C)
Crack bridging ability		Complies
Temperature resistance		Max 90°C
Waterpenetration		impervious
Chemical resistance		Excellent
Puncture Resistance	ASTM E154	Min 175 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