



HIGH-RESISTANCE SELF-LEVELLING POLYURETHANE S90

DESCRIPTION

Self-levelling polyurethane-cement mortar for flooring, in three components, combining extraordinary wear resistance with high chemical resistance and an attractive finish. Suitable for aggressive areas where a joint-free finish is required and maximum hygiene is essential.

Depending on the size of the aggregates, it provides a smooth finish texture.

ADVANTAGES

It is mainly used in industrial plants that require high wear resistance, allowing layers of 6 to 12 mm. For semi-wet or dry process areas with high freezing temperatures, traffic areas, etc., such as in dairy, meat, bakery, bottling, brewery, winery, distillery, laboratory, chemical processing, pulp and paper processing plants, kitchens, restaurants, textile industry, as well as storage areas. Loading and unloading areas and any element subject to high abrasion and impact.

Application time:	15 minutes.
Light foot traffic:	24 hours
Adhesion:	$>2.0\text{N/mm}^2$
Compressive strength:	52 N/mm^2
Consumption:	$2.65\text{ kg/mm}^2\text{-mm}$

RECOMMENDED USES

SUPPORT PREPARATION

The substrate must be hard, solid and free of dust and other loose particles such as paint, lime residues, mortar, plaster, adhesive residues, etc., which could compromise adhesion to the substrate. Prior to mechanical preparation, remove any varnish, wax, grease, oil and similar contaminants. Concrete surfaces must be mechanically treated, either by intensive shot blasting or milling, and then thoroughly vacuumed. Any joints or cracks in the concrete substrate where differential movement is expected, e.g. expansion joints, must be raised to the finished surface level and sealed appropriately. The tensile strength () must not be less than 1.5 N/mm^2 . If in doubt, apply a test area first.

APPLICATION

Mixing process:

First, mix parts A and B of the POLIURETANO S80 components for 1 minute using a suitable mixer in a container of appropriate size. Then add the contents of part C, the powder component, to the resin mixture and mix everything together for a further 2 minutes to obtain a homogeneous mass. One or more sets can be mixed at the same time.

Mixing ratio:

Component A: 4.34 kg

Component B: 5.10 kg

Component C: 25 kg

SURFACE PREPARATION

Before application, confirm the moisture content of the substrate, relative humidity and dew point.

For floor coating applications, the mixed material should be applied immediately to the prepared and primed surface using a spreader and/or trowel to smooth it. As soon as the product has been spread and depending on the progress of the work, a spiked roller should be gently rolled over the surface to achieve a flat appearance. The spiked roller should not be rolled over a second time.

All expansion joints in the substrate must be raised to the screed and sealed appropriately. Construction joints and cracks that are not subject to movement can be filled, but if the substrate moves despite this, these defects will show through the coating. Insulation joints must be made in areas where severe thermal shocks are expected, e.g. around stoves and freezers.

TECHNICAL CHARACTERISTICS

It should be applied at temperatures above +10°C and below +30°C and in places where the relative atmospheric humidity (RH) is below 90%. Moisture content < 6%; if the floor has higher residual moisture, it must be treated with vapour barriers. Slope: Maximum 25 mm/m. Tensile strength: 1.5 MPa.

Colour stability:

Colour uniformity may vary slightly between production batches. Take care when using different batch numbers, as these should be applied to different or predefined areas as they may undergo colour changes or yellowing under the effects of ultraviolet light, depending on the intensity and duration of exposure, which will be more visible the lighter the colour of the mortar.

CONSERVATION

Store in a dry place between +5°C and +30°C. Protect from frost and direct sunlight. The shelf life is 6 months in the original sealed packaging.

Chemical resistance:

High-resistance polyurethane S90 is resistant to a wide range of liquids and chemicals. For more specific information, please consult the PINAY Technical Department.

Product protection/curing:

Wait for the product to cure completely to achieve the declared performance of the material. During application and hardening of the products, do not carry out any work or activities that could damage the mortar until the product has completely cured.

SAFETY

See label and Safety Data Sheet.



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