

SUPER SCREED PU

High Performance, Heavy Duty Polyurethane Screed

Description

SUPER SCREED PU is a three-Component trowel applied hygienic heavy duty polyurethane screed system to provide durable and high abrasion resistance floor protection for concrete.

SUPER SCREED PU consists of polyurethane base resin, hardener and graded silica granules when mixed and dry produces an extremely dense, durable, chemically resistant floor topping. It is designed for application at a nominal thickness from 4 to 10mm.

Features & Benefits

- High impact and abrasion resistant
- Durable and low maintenance.
- Hygienic product
- Good resistance to a wide range of chemicals
- Excellent mechanical properties with high compressive and flexural strength
- Excellent adhesion to substrate.

Uses

SUPER SCREED PU is suitable for industrial and commercial situations to produce floor surfaces able to withstand mechanical abrasion and the spillage of liquids including aggressive chemicals, in situations such as:

- Heavy engineering plants
- Chemical handling and process areas
- Oil refineries
- Workshops, warehouses, and stores
- Utility rooms
- Car Parks and Ramps
- Food and beverage processing areas

SUPER SCREED PU is designed for general leveling repairs in floors subject to heavy traffic.

Technical Properties

Appearance	resin mortar
Pot Life	30 minutes

Mix Density	2,000 Kg/m ³ approx.
Compressive Strength	80 N/mm ²
Flexural Strength	40 N/mm ²
Tensile Strength	10 N/mm ²
Bond Strength	>2.5 N/mm ² (concrete cohesion)
Open to foot traffic	Min. 24 hours
Open to Vehicular traffic	Min. 2-3 days
Full curing	7 days
Coefficient of thermal expansion	4 X10 ⁻⁵ °C
Abrasion/ Impact resistance	Excellent (>13 N/mm ²)

All values are subject to 5-10% tolerance

Standards Compliance

- BS 6319
- EN 13813 (SR)
- ASTM C 580, C579& C 307
- ASTM D 4541, D 4060

Application Procedures

Surface preparation:

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation using mechanical methods like grinding or blasting in order to provide a suitable clean surface is strongly recommended. All necessary repairs should be made prior to application by using epoxy mortar. Contact SBI Technical Department for advice.

New concrete floors should have been allowed to cure for at least 21 days (moisture content below 5%) in order to allow all shrinkage movement to take place before applying the floor coating.

Cracks should be repaired with EPOREP FINISH and expansion joints with EPOREP epoxy mortars.

Metal surfaces must be brushed or sand blasted (in order to remove all corrosion and mill scale).

Prime the prepared surface with **TOPSEAL EP or PU** Primer before **SUPER SCREED PU** application.

Mixing Instructions:

SUPER SCREED PU is composed of three components that must be mixed at the moment of use. The entire contents of hardener pack (Comp. B) should be mixed first with the base part (Comp. A) and mix together for 2-3 minutes with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix. Slowly add the aggregate (component C) and mix till getting a homogenous mixture.

Application Instructions:

Pour the mixed product onto the surface and spread to the desired thickness using steel trowel or suitable tools. Use the proper tools to cut the joints along the resumption lines and screeds joints. Seal the joints with suitable sealant.

Coverage

10kg per square meter at 5mm layer thickness.

Coverage depends on substrate porosity and profile.

Packaging

SUPER SCREED PU is available in 30kg three-component kit.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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