



TECHNICAL DATA SHEET

PU SCREED HF Polyurethane Screed

Description

PU SCREED HF is a heavy duty, trowel applied polyurethane floor screed for use on concrete and polymer modified cementitious screeds.

PU SCREED HF is designed with extreme durability, impact, abrasion, and chemical resistance. Its lightly textured finish makes the product ideal for both wet and dry processing environments such as the food, beverage and chemical industries. Dairies, bakeries and heavy engineering where high impact and temperature occur.

Features & Benefits

- Stable to steam cleaning and hot water exposure at a thickness of 9.0 mm.
- Can also be laid minimum 6mm
- Very high chemical resistance.
- Slip resistant.
- Non-tainting.
- Seamless.
- High abrasion resistance.

Packaging Kit

Part A Resin: 2.500kg
Part B Hardener: 2.100kg
Part C Aggregate: 25.00kg

Coverage

Approx.
2.00 kg/m² per mm.
12 kg/m² at 6.0 mm.
18 kg/m² at 9.0 mm.

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and site condition, profile, and porosity of the substrate.

Substrate Requirements

The surface must be clean, dry and free of all contamination. The concrete substrate must have a minimum tensile strength of 1.5 N/mm². Inadequate preparation will lead to loss of adhesion and failure. Grinding, light vacuum-contained shot-blasting or planing is recommended. Percussive scabbling or acid etching is not recommended.

Anchorage grooves should be cut to a width and depth of twice the thickness X 10mm wide of the floor finish at the edges, bay joints, up-stands, drains, doorways and at regular points across the floor. Debris must be removed. Cut the groove 50mm away from the edge and then cut a second groove 50mm away from the first groove.

Environmental Conditions

Optimum ambient temperature range is 10 – 25°C. Localized heating (electric powered warm air blower) or cooling equipment may be required outside this range to achieve ideal temperature conditions.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of

condensation or blooming on the surface, relative humidity at less than 75%. (ideally between 50-65%) from before priming, to at least 48 hours after application.

Installations outside of the above parameters will affect the cure period, surface finish and strengths.

Product Application

PU SCREED HF can be applied to 7-day-old concrete that is visibly dry and having a minimum tensile strength (pull-off) of 1.5 N/mm². All the usual stringent surface preparation techniques should be employed. For concrete bases in contact with the ground, a damp-proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code of Practice for Protection of Buildings Against Water from the Ground).

Sindec EPR221 or Sindec DPM should be applied as a primer coat. Apply using a medium nap roller directly from a paint tray or scuttle. Roll the coating well into the surface, make sure it is fully whetted out then pull back to a tight coat with the roller. Apply around the edges of and into anchorage grooves by brush, (do not flood the grooves remove any excess primer) to allow even spreading. Avoid pooling and puddling on the floor. If, when cured, there are dry patches, Visible, a further primer touch up to the patches is required. A light scatter of 0.7-1.2 mm aggregate into the wet primer may help stop the RESIN SCREED skidding during application.

Allow to cure a minimum 12 hours at 20 °C. If the primer has been left to cure for >48 hours then the primer surface should be mechanically abraded and the area re-primed.

Pre-mix the coloured resin component before use. Add the hardener component to the coloured resin component and mix using a low-speed electric mixer (300 - 400 rpm) for 1 - 2 minutes until homogeneous. Decant the mixture into a forced action mixer and add the aggregate component in stages, mixing for a minimum of 3 minutes until a uniform coloured, lump-free mix is obtained. Apply to the required thickness using a steel float. Ensure that anchor grooves are fully wetted out with material. The cured product should be protected from other trades using Kraft paper or similar breathable material. Polythene must not be used. Protect the installed floor from damp, condensation, and water for at least 4 days.

Technical Information

Curing Schedule 20°C	Light Foot Traffic Light Wheeled Traffic Heavy Duty Traffic	Minimum 12 hours Minimum 4 days Minimum 5 days
Shelf Life	Resin & Hardener: Aggregate:	12 Months 6 Months
Pot Life	10 20 30	20 to 30 minutes 15 to 20 minutes 10 to 13 minutes
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.	



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Service Conditions

Extreme temperatures: +70°C +120°C -25°C -40°C	Conditions Spillages when applied at 6.0 mm. Spillages when applied at 9.0 mm including steam cleaning. When applied at 6.0 mm. When applied at 9.0 mm.
Compressive Strength	>50 N/mm ²
Slip Resistance	>55 dry >40 wet

Chemical Resistance

PU SCREED HF is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol).

It is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult our Technical Department for further advice.

*See Chemical Resistance Chart.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor.

PU SCREED HF can be easily cleaned using WATER. When applied at 9.0mm thickness, **PU SCREED HF** is fully steam cleanable.

Appearance

A seamless, matt surface with a light, slip resistant texture.

PU SCREED HF contains a white aggregate to provide a slip resistant surface to the finished floor. When first installed, the floor has a uniform coloured surface. But, with general use, the white aggregate will begin to show through giving a decorative, mottled look. In both stages the floor has excellent slip resistance.

Technical Advice

For further information on this or any other Sindec product, please contact our office.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <10°C during the application or within the curing period.

The manufacture of **PU SCREED HF** is a batch process and despite close manufacturing tolerances, colour variation may

occur between batches. Products from different batches should not be used on the same surface or surfaces close.

together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch using the same application methods. Product should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the floor or surface.

Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions.

Any remaining parts A and B of the same product should be mixed and allowed to cure before disposal.

Health & Safety

Before using this product, please ensure that you have received and read the product Material Safety Data Sheet. Refer to the hazard labelling on the product. Always wear gloves and goggles and avoid contact with skin and eyes.

Additional Information:

The information contained in this document, and all further technical advice given is based on our present knowledge and experience.

However, it implies no liability or legal responsibility on our part. No warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control.

Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose. We reserve the right to make any changes according to technological progress or further developments.

Products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

The use of the product must be tested for suitability of application and purpose.

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