Acrylicon Levelling Screed System

Finished installation - topped with our Acrylicon Décor system

Description and Uses

The Acrylicon Levelling Screed System is a solvent-free, 2 component methacrylic polymer mortar with high compressive and flexural strength. It is characterised by very low linear shrinkage and rapid curing, making it an ideal replacement for cementitious mortars and screeds. Acrylicon Levelling Screed can be applied in thicknesses of 5-550mm. The low shrinkage rate enables larger unevenness to be levelled out. The mortar surface resembles that of finished concrete.

Designed as an underlayment screed for Acrylicon Systems, levelling up of uneven substrates, creating falls to drains, bedding in drains, ramps, rail bedding, casting bridge bearings and repairing concrete. Can be used internally or externally.

Specification

Product	Acrylicon Levelling Screed System - Preparatory work and application in accordance with suppliers instructions.
Finish	Rough
Thickness	5-25mm as standard. As screed up to 550mm with the addition of aggregates.
Colour	Standard beige colour, can be pigmented
Supplier	AcryliCon Polymers GmbH (Germany)

Please visit our website **www.acryliconpolymers.com** to find your nearest AcryliCon office.

Key Features and Benefits

- 1-2 hours cure time - rapid installation and minimum downtime.
- Hard wearing - exceptional resistance to chemicals, abrasion, impact and fire.
- Very low shrinkage - ideal for covering large areas.
- Mortar system - can be used to repair concrete.
- Non-porous and suitable for bedding in drains and wet use areas.
- Chemically fuses to other Acrylicon systems to prevent delamination.
- Low emissions - our products are solvent-free and contain very low VOC's.

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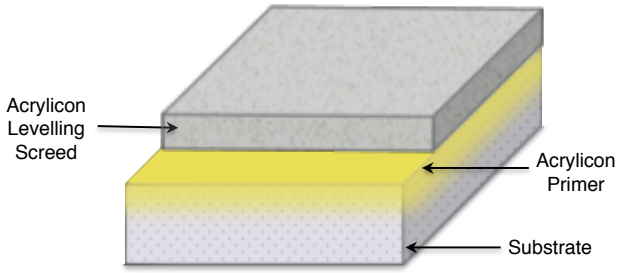
System



Cure Time

Acrylicon Levelling Screed is fully cured within 2 hours after installation and may be put into full use by the customer.

Properties and Application

Acrylicon Levelling Screed thickness can be achieved by adding further coarse aggregates (for ramps, rail bedding, filler and screed mortars, casting bridge bearings). The substrate generally needs to be pre-treated. The curing time is around 1 hour at 20°C/68°F (ambient). The lowest application temperature (substrate and material) is 5°C/41°F.

Substrate

The concrete strength must not be less than 22.5N/mm2 (3250psi). Cores may be required for laboratory testing if any doubt exists. The substrate must be solid, free of dirt, oil, dust and other contaminants that would prevent bonding. It is necessary to protect the substrate from rising moisture and ground water pressure. Acrylicon systems can be applied onto 28 day old concrete at a Relative Humidity of up to 95%. Should there be any doubt about the moisture in the concrete, an insulated hygrometer is recommended for testing the vapour leaving the substrate. In situations requiring rapid installation, AcryliCon can provide fast cure systems as alternatives to traditional concrete. AcryliCon systems can also bond to other substates. For further advice please contact your nearest AcryliCon office.

Technical Information

Compressive Strength EN196-1 (DIN1164), ASTM C349	54 N/mm² / 7,830 psi
Flexural Strength EN 196-1 (DIN1164) / ASTM C348	18 N/mm² / 2,610 psi
Water Permeability DIN / EN 1062-3:2008	<0.001 kg/(m².h$^{0.5}$)
Tensile Adhesion Strength DIN / EN 1542:1999	Concrete: >2.0 MPa Steel: >2.0 Mpa
Temperature Resistance	Tolerant of sustained temperatures up to 65°C/149°F
Chemical Resistance EN13529	Excellent

The technical properties of the Acrylicon system are evaluated to EN, ASTM or ISO standards and the results are average values, delivered under proper installation procedures and recommended conditions.

Life Expectancy

In excess of 20 years, subject to correct installation conditions and substrate preparation. Life expectancy is generally influenced by the use of the system and maintenance regime.

Disclaimer