



REF : ACLS-0620

ACL-Smooth Screed

DESCRIPTION

ACL-Smooth Screed is a self-smoothing epoxy resin seamless floor finish designed to provide a flat hard wearing gloss finish 2-3 mm in thickness following the profile of the existing floor.

The system gives aesthetically pleasing results with chemical resistance and durability.

ADVANTAGES

- Seamless
- Hard wearing durable floor for industrial use
- Ease of application
- Hygienic
- Decorative - available in an attractive range of colours
- Excellent abrasion and impact resistance
- Good chemical resistance
- Smooth finish for precise operating equipment

RECOMMENDED USES

- Pharmaceutical production
- Printing and packaging areas
- Television studios
- Automotive Production
- Industrial Workshops
- Engineering area

PRODUCT INFORMATION

System Thickness (dry)	Solids Content	Pack Size	Pack Make Up	Shelf life	Storage
2 mm to 3 mm	100%	30 kg.	30 kg. - 1 X Base 1 X Hardener 1 X Aggregate bag	12 Months (Base & Hardener) 12 Months (Aggregate)	Keep out of direct sunlight. Store in a dry place, not below 15°C

DRYING TIMES & COVERAGE RATES at 20°C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
7.5 m ² @ 2mm thickness or 5 m ² @ 3mm thickness per 30 kg. unit	Including Aggregate 30 Mins	For non-slip seal coats 12 -16 Hours (Depending on Temperature)	24 Hours	72 Hours	7 Days

Specification

Product : ACL-Smooth Screed

Finish : Smooth coloured profile

Thickness : 2 - 3 mm

Colour : Available in a range colours

Products required for this system

Prime : ACL-Prime / ACL-Prime DPM

System : ACL-Smooth Screed at required thickness

Surface Seal : Not Required

(Except for ACL-Coat HB with aggregate for a non-slip finish)

Preparation

To achieve the best performance from **ACL-Smooth Screed** the correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitance with a minimum strength of 25N/mm². All surfaces must be prepared by vacuum blasting or mechanical abrasion.

Priming

ACL-Smooth Screed should be applied onto a cured coat of **ACL-Prime** solvent free epoxy resin primer, normally applied at 4 m²./kg. Rough or porous surfaces may require an extra coat of **ACL-Prime** which should be allowed to dry before a second coat is applied. It is essential the primer coat seals the substrate so no air pockets or cavities remain.

If substrates have moisture levels above 75% RH prime the surface with **ACL-Prime DPM** (number of coats dependent on moisture content).

Application

The ambient temperatures of the areas should not be allowed to fall below 15°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Material and surface temperature must be above 10°C.

Mixing : Pre-mix the coloured component to a uniform colour then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used ensure all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately one to two minutes or until the two components have fully combined then add the aggregate bag or bags and mix together.

The mixed unit should be applied immediately.

ACL-Smooth Screed should be worked with a trowel or float to achieve an even smooth finish. This is best achieved by the application of a smooth even pressure with the compound poured over the correct coverage rate after fixing any stop ends to control the flow of the material.

After 10 - 20 minutes roll the area with a spiked roller to achieve an even smooth surface and remove entrapped air. Do not re-roll the area later.

Optional Anti-Slip Finish

An anti-slip finish can be created by applying one coat of **ACL-Coat HB** to the cured surface, and then incorporating a fine aggregate into this whilst wet. This can then be sealed with a top coat of **ACL-Coat HB** if required.

ACL-Chemi Coat is recommended as a top coat in areas where very high chemical resistance is required. Please see Data Sheet for **ACL-Chemi Coat**.

NB: All epoxy resin based systems will with time show slight surface discolouration under the effect of UV light this does not in any way affect the durability of the floor finish. Darker colours will not show this effect as much as light colours.

Category Guide

FeRFA Category : 5

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance	Dry	> 60
Method BS7976 pt1-3 2002	Wet	Please consult ACL

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult ACL.

Abrasion Resistance	n/a
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Method BS8204 /ASTM D4060

Temperature Resistance	Tolerant of sustained temperatures of up to 60°C
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Chemical Resistance	Good. Consult ACL for Further details
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Compressive Strength	70 N/mm ²
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Flexural Strength	23 N/mm ²
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Tensile Strength	18 N/mm ²
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VOC	100 g/l Calculation based on a full mixed unit
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Life Expectancy	8 years plus Medium duty environment 10 years plus in light duty environment Subjected to Industrial Traffic ACL terms and conditions will apply
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Maintenance and Cleaning

ACL recommend that **ACL-Smooth Screed** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising **Industrial Floor Cleaner** or similar with dirty water being removed.

All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Health and Safety

ACL-Smooth Screed is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by ACL Industrial flooring (ACL) Limited or its agents is based on the information supplied by the purchaser. ACL Industrial Flooring (ACL) Limited cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.