



MASTERING TECHNOLOGY AND PRACTICALITY

an ARDEXGROUP Brand

ST-SL(U)

Under-layment self-leveling Screed

Extremely low shrinkage

Allow foot traffic within a short period

Fast strength build-up for next working process

Strong adhesion to substrate

Easy application by pumping or manual application

Smooth and flat finishing surface

High productivity & cost effective

Easy, tidy, clean storage & environmentally friendly



ST-SL(U)

Under-layment self-leveling Screed

PRODUCT DESCRIPTION

ST-SL(U) is a proprietary premixed cementitious under-layment self-levelling screed enhanced with modified polymer. ST-SL(U) does not contain casein or other protein bearing additives that would develop ammonia during the curing process. ST-SL(U) is formulated to achieve a smooth, flat surface with ease of application and optimum flow properties. It can be applied either by manual or pumping application.

AREAS OF APPLICATION

- Floor screed for residential, commercial, recreation, light duty or medium duty application.
- Under-layment for floor coverings (e.g., paint, carpets, vinyl sheets, ceramic tiles, etc.) in various types of facilities such as light to medium duty warehouses, domestic, office units, shops, malls, hospitals, classrooms, sports courts, etc.
- Leveling of existing uneven concrete floors
- Areas that require flat & smooth surfaces over existing concrete slabs.
- Suitable for new construction or refurbishment projects.

SUBSTRATE PREPARATION

The substrate must be sound, even, clean and free from loose particles, grease or any other unwanted contaminants.

Any cracks at the substrate must be repaired and made good. Concrete laitance and old coatings should be removed mechanically (e.g. by enclosed shot blasting, scraping or scarification).

Contraction joints, construction joints and any other kinds of joints in the substrate shall be extended to the surface of ST-SL(U). Defects like crack or delamination at the substrate shall be remedied before laying ST-SL(U).

Primer such as Score Tech Latex Admix (ST-LA) or Score Tech Supreme Primer (ST-SP) shall be applied on substrate before applying ST-SL(U). After the primer is fully dry, self-levelling construction can be carried out.

INSTALLATION

1. Mix ST-SL(U) with the recommended water quantity by using mechanical mixer (e.g. electric hand drill mixer) until a lump-free homogeneous mixture obtained.
2. Workability of ST-SL(U) is preferably with at least 140 mm as tested by flow ring for application.
3. Apply ST-SL(U) onto floor as soon as possible after mixing. Spread ST-SL(U) with the aid of long steel trowel/serrated squeegee/spike roller or other suitable tools.
4. Please refer to the method statement for details.

CURING

Under normal circumstances, natural air curing of 7 days is proven adequate for ST-SL(U) to proceed with next procedure.

PACKAGE

25 kg bag

SHELF LIFE

ST-SL(U) has a shelf life of 6 months if well-kept in dry condition on lifted floor.

HEALTH & SAFETY

A qualified mask or equivalent personal protective equipment must be worn when handling this product. This product is non-toxic and does not contain harmful substances but may cause allergies or irritation to eyes and skin. If it accidentally comes into contact with eyes, rinse immediately with plenty of water and seek for medication.

REFERENCE STANDARDS

- European Standard
BS EN 13892;
BS EN 12706;
BS EN 13454
- British Standard
BS 8204

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PRODUCT INFORMATION

Colour	Grey
Water Demand	~ 5.6 – 6.4 L / 25kg bag
Coverage	~ 1.7 kg/ m ² / mm
Recommended Application Temperature	~ 10 to 35°C
Coat Thickness	~ 3 – 15 mm

PRODUCT PERFORMANCE

Performance	Test Standard	Result
Compressive Strength at 28 days	BS EN 13892-2	≥ 30 N/mm ²
Flexural Strength at 28 days	BS EN 13892-2	≥ 7 N/mm ²
Adhesion Strength at 28 days	BS EN 13892-8	≥ 2 N/mm ²
Flow Ring	BS EN 12706	≥ 140mm
Free Shrinkage at 7 Days	BS EN 13454-2	≤ 0.01%

* Note: The test standards for the product performance stated above refer to laboratory test only.

DISCLAIMER

As the application condition may vary from site to site and may not be identical to the same condition under which the parameters in the brochure are drawn. The information provided in this Technical Data Sheet is for general guidance only. Warranty will not be given to the ultimate performance and application results of this material when the material is not kept, mixed, applied or cured strictly in accordance with the requirements and/or instructions listed out in this brochure or in any other supplementary document.