

## Under-layment Self-leveling Screed

**ST-SL(U)**

Cementitious under-layment self-leveling floor screed modified with polymer additives for paint, carpets, vinyl sheets and tiles finishing. It does not contain any casein or other protein bearing additives that would develop ammonia during curing process.



### PRODUCT DESCRIPTION

ST-SL(U) is a proprietary premixed cementitious under-layment self-leveling floor screed enhanced with modified polymer and 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 is in pre-mixed powder form and is designed for using as concrete subfloor in various types of buildings such as light to medium duty warehouses, domestic, office units, shops, malls, hospitals, classrooms, sports courts, etc.

### 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 cracks in the substrate which may be subjected to movement must be maintained as joints in the new surface after installation of ST-SL(U). Primer such as Score Tech Supreme Primer (ST-SP) or Score Tech Latex Admix (ST-LA) shall be applied on substrate before applying ST-SL(U). Dilution ratio of ST-SP:

1st coat: 1 part ST-SP to 8 parts water

2nd coat: 1 part ST-SP to 5 parts water

Dilution ratio of ST-LA:

1st coat: 1 part ST-LA to 4 parts water

2nd coat: 1 part ST-LA to 2 parts water

The primer should be left for ample time until tacky dry before application of the self-leveling material.

### FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Extremely low shrinkage
- ◆ Allow foot traffic within a short period
- ◆ Fast strength build up
- ◆ Strong adhesion to substrate
- ◆ Easy application by pumping or manual application
- ◆ Smooth and flat finishing surface
- ◆ High productivity & cost effective
- ◆ Easy, tidy, clean storage & environmental friendly

### AREAS OF APPLICATION

- ◆ Floor screed for residential, commercial, recreation, light duty or medium duty application
- ◆ Under-layment for floor coverings such as paint, carpets, vinyl sheets, ceramic tiles, etc
- ◆ Leveling of existing uneven concrete floors
- ◆ Areas that require flat & smooth surfaces over existing concrete slabs
- ◆ Suitable for new construction or refurbishment projects

## MIXING & INSTALLATION

1. Mix ST-SL(U) with electric auger type mixer or automatic mixer pump in accordance with the recommended water/powder ratio.
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 provided by Score Tech for details.

## CURING

Under normal circumstances, natural air curing of 7 days is proven adequate for ST-SL(U) to receive subsequent layer of material.

## 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

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-SL(U) contains cement which may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.






## REFERENCE STANDARDS

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

## PRODUCT INFORMATION

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

## PRODUCT PERFORMANCE

 Compressive Strength	BS EN 13892-2	≥ 30 N/mm <sup>2</sup>
 Flexural Strength	BS EN 13892-2	≥ 7 N/mm <sup>2</sup>
 Adhesion Strength	BS EN 13892-8	≥ 1.5 N/mm <sup>2</sup>
 Flow Ring	BS EN 12706	≥ 140 mm
 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

Note: 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 on 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 other supplementary document.

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