



Ready to Use, Cementitious, Shrinkage Compensated, Self-Levelling Screed / Underlayment for Smoothing of Uneven Surfaces

General

SS – FloorScreed IN is a shrinkage Compensated, cementitious, self-levelling screed / underlayment for high wearing surfaces. The product contains specialized cement binders and selected minerals with admixtures inbuilt to provide self-levelling property. **SS – FloorScreed IN** smoothens by itself and therefore covers the undulations in the underlying floors. Levelled floorings in warehouses and Industries are very important for smooth movement of load carrying forklifts etc. Additionally **SS – FloorScreed IN** can be used as underlayment for Epoxy / PU screeds to achieve the economy. Due attention should be paid to time of mixing and desired consistencies as these are dependent on ambient temperatures. A lower strength version **SS – FloorScreed RE** is available for residential applications as effective underlayment for tiles, carpets, wooden paraquet floorings etc.

SS – FloorScreed IN contains polymers to enhance the bonding to substrates and underlying floors. This can be used effectively in repairs and refurbishment of old industrial and warehousing floors. By virtue of specialized binders the material is quick setting as well as provides higher early and final strengths. The floors have lower permeability with increased durability. Self levelling screed should be laid in accordance with basic principles of civil and structural engineering and surface preparation should be perfect. Curing is essential to get the desired performance and to avoid early drying leading to shrinkage cracks.

Product Features

- Self Levelling
- Smoothens by Itself
- Quick Strength Developments
- Higher Bond Strengths
- Easy to Mix and Lay
- Economical, Saves Labour
- Shrinkage Compensated
- Non Cracking
- Non Toxic and Chloride Free
- Can be Poured and Pumped
- High Abrasion Resistance



Areas of Application

- As Self Levelling Screed
- As Underlayment
- As Smoothing Screed
- Can be used on Concrete / Metal Surfaces
- Substitute for Epoxy / PU Screeds
- Warehouses, Industries, Stores etc.
- As Quick Repairing Material
- Car Parking, Light Traffic Areas
- For Refurbishment of Old Areas
- In Commercial Buildings before Carpeting
- To Save Consumption of Tile Adhesive

Areas of Application

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|-------------------------------|---|
| Specification Keywords | Shrinkage Compensated, High Strength, Non-Shrink, Free Flow, Self Levelling Screed / Underlayment |
| Delivered As | Grey Powder |
| Storage Instructions | Store in a cool, dry area away from sunlight in original packaging |
| Shelf Life | 12 months |
| Post Use | Empty packaging completely. Dispose as per local regulations. Refer MSDS for suggestions. |
| Packing Size | 30 kg |

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Hazards and Safety



Technical Data

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|----------------------|--|
| Sp. Gravity | 2.0 ± 0.10 |
| Min. Use Temperature | + 20°C |
| Pot Life | ≈ 25 to 30 Minutes depending on ambient temperatures |
| Setting Time | ≈ 3 to 5 hours depending on ambient temperatures |
| Compressive Strength | 24 Hrs - 12N/sq. m. 7 Days - 20 N/sq. m. 28 Days - 35 N/sq. m. |
| Flexural Strength | > 12 N/sq. mm. in 28 Days |
| Bond Strength | > 2 N/sq. mm. in 28 Days |
| Mixing Ratio | 15 to 18% Water by weight of Powder depending on consistency requirements. |
| Consumption | ≈ 2.0 kg Powder / liter Volume. |

Instructions for Use

The floors on which the use of **SS – FloorScreed IN** is intended to be used should be well designed and structurally sound. The concrete floors have to be repaired and all cracks, crevices etc. should be filled as per principles of Civil Engineering. In case the concrete surface has overlays, the pull of strength of such overlay should be > 1.5 N/Sq M. The surface preparation is the key to success of SLU topping. The surface should be free from oils, fats, remnants of curing compounds etc. in addition to being free from dust and other contaminants. The surface should be cleaned with water and pre-wetted. A bond coat like **SS - StructoBond BM** is required for cementitious surfaces. For metallic surfaces use of Epoxy Primer **SS - PrimeCoat EP** is recommended. The work to be carried out in fresh-to-fresh application.

The mixing of **SS – FloorScreed IN** is a very crucial step as dispersion of constituents plays a role in performance. **SS – FloorScreed IN** is to be added to water and not vice versa. Limited quantities should be mixed which can be used and levelled in 25-30 min. 15-18 % potable water is to be taken in clean containers or professional mixing and pumping devices. **SS – FloorScreed IN** is to be added to the water and mixed mechanically to obtain flowable consistency. The mix can be manually spread or pumped and immediately levelled by means of brushes or rubber squeegees. Maximum individual thicknesses should not exceed 8-10 mm. Selective and well-graded aggregates can be added to achieve higher thicknesses. Preliminary trials are required. The process of curing should start immediately to avoid surface cracks. **SS - CureSeal WB** or **SS - CureSeal AC** are effective curing compounds to ensure effective curing.

Safety and Precautions

- Mix only small quantities that can be used within 25 - 30 minutes.
- Water should not be added to hardened mix.
- Higher temperatures accelerate the hardening and lower temperature delays it.
- The mortar requires adequate protection from drying out and needs curing.
- The mix is non-shrink but needs to be restrained on open sides.
- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.