

TECHNICAL DATASHEET

ASCOSCREED SL™

Specially Developed Single Part, Free Flow Cementitious
Self Leveling Underlayment



SELF
LEVELING



CHLORIDE
FREE



SELF
CURING



PRODUCT DESCRIPTION

ASCOSCREENED SL is an exclusively designed single-component, free-flowing cementitious self-leveling underlayment. Formulated from a precisely controlled mixture of specialized minerals, cement, polymers and additives. **ASCOSCREENED SL** showcases exceptional flow characteristics, enabling both self-leveling and smoothing properties. It is well-suited for a wide range of common subfloors, including sand/cement screed and concrete. By application of **ASCOSCREENED SL**, surface depressions, seams and surface defects are instantly eliminated.

INDEX

KEY FEATURES	1
TECHNICAL INFORMATION	1
APPLICATION COMPATIBILITY	1
APPLICATION METHOD	1
PACKAGING	3
COVERAGE	3
SHELF LIFE	3
HEALTH & SAFETY GUIDELINES	3
TOOLS & ACCESSORIES	3
DISCLAIMER	3

KEY FEATURES

- Easy to use
- Superior flow characteristics
- Very versatile smoothing compound
- Self-curing
- High strength
- High crack resistant
- Non-shrink
- Self-leveling
- Excellent adhesion

TECHNICAL INFORMATION

■ APPLICATION PROPERTIES

PROPERTY: TEST METHOD	TYPICAL VALUES
Appearance	Free-flowing granular grey powder
Bulk density	1250 to 1350 kg/m ³
Mixed density	1950 to 2050 kg/m ³
Water demand @ 27 ± 2 °C Ambient & water temperature	23 ± 2% (by weight)
Pot life @ 27 ± 2 °C	25 ± 5 minutes
Working time @ 27 ± 2 °C	20 ± 5 minutes
Initial setting time @ 27 ± 2 °C	40 minutes
Final setting time @ 27 ± 2 °C	60 minutes
Light foot traffic @ 27 ± 2 °C	≥ 5 hours
Application temperature (Substrate)	+5°C to +35°C
Final bed thickness	2 mm - 10 mm
Compressive strength	1 day: 5 N/mm ² 7 days: 15 N/mm ² 28 days: 25 N/mm ²
Flexural strength	1 day: 1 N/mm ² 7 days: 3 N/mm ² 28 days: 5 N/mm ²

APPLICATION COMPATIBILITY

■ AREAS OF APPLICATION

As an underlayment for the repairing & patching of screeds, concrete & cementitious surfaces, as an underlayment levelling floor for carpet, vinyl (PVC, rubber) flooring, tiles, wooden tile floor, uneven horizontal surface of concrete & screeds, leveling anhydrite substrates and levelling underfloor heating system.

■ SUITABLE SUBSTRATE

Concrete, cement/sand screed, quarry tiles, existing tile/stone (with **ASCOBOND 450**), used for smoothing and leveling in layers.

APPLICATION METHOD

SUBSTRATE PREPARATION

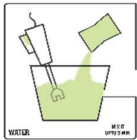
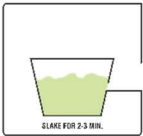

- Any adhesion-reducing or any unstable layer that is curing compound, release agent, loose adhesive/compound, covering or paint residue must be removed by abrading, grinding or short blasting or by merely brushing off.
- Substrate must be pre-dampened with sufficient water (warning: no standing water/puddles) to a saturated, surface dry condition (SSD).
- A pre-requisite for a good bond between the substrate and self-leveling **ASCOSCREED SL** screed is an appropriate roughness of the substrate. The mean surface roughness should be as large as possible, but at least 1 mm.

PRIMING

- For **regular substrate**, normal concrete/screed & particularly porous concrete/screed require priming with **ASCOBOND** or **ASCOBOND AR** : OPC/ PPC : water in a mixing ratio of 1:1:0.5 followed by a coat of undiluted **ASCOBOND** or **ASCOBOND AR**.

- For **non-absorbing glossy substrate**: Apply a single coat of **ASCOPRIME GT** by using a brush or roller. Allow it to dry completely. Apply the primer evenly and allow sufficient coverage on the substrate to give a light green film once dry. The dried primer film should not be opaque or transparent. Before applying **ASCOSCREED SL**, leave it to dry, suitable for walking. **ASCOPRIME GT** can also be used for regular substrate.

MIXING

- Pour a 25 kg bag of **ASCOSCREED SL** into a bucket containing 5.25 – 6.25 litres of clean water (an additional 0.5 litre of water may be required if the ambient temperature is above 35 °C or % RH is < 50) and blend with a low-speed spiral or helical electric mixer in slow speed (< 400 rpm) until a homogeneous, self-levelling, lump-free mixture is achieved.
 
- Larger quantities of **ASCOSCREED SL** can be prepared in suitable mixers.
 
- The use of a mixing paddle with a 10 mm chuck, ensures thorough mixing with maximum shear yet minimum air entrapment and heat built-up.
 
- After 2 – 3 minutes of slacking of **ASCOSCREED SL**, the mixture should be stirred again and then it is ready for use.
- For improved efficiency and continuous production, it is recommended to use at least two mixing buckets. For larger jobs, the use of a mechanical mixer/pump unit is recommended.
- The amount of **ASCOSCREED SL** mixed at any given time must be utilized within 15 – 20 minutes.

APPLICATION

- Pour or pump the blended product onto the floor surface in a single coat from 2 to 10 mm with a large metal trowel or spike roller.
- Spread the material with the help of a notched trowel (thickness required and notched trowel thickness should match).
- **ASCOSCREED SL** will level to create a smooth finish.
- Then use a spike roller to release air bubbles, ensuring this is done within 5 minutes of the application.
- Due to its remarkable self-leveling characteristics, **ASCOSCREED SL** immediately eliminates small imperfections, trowel marks, etc.
- Protect the screed from drafts for the first 6 hours after application. Subsequently, ensure adequate ventilation in the room to facilitate the drying of the screed.
- Full coverings can be installed after 24 – 48 hours, depending on the thickness of **ASCOSCREED SL** applied.
- Any remaining trowel marks should be removed with a wet scraper after 1 hour
- On large surfaces follow all the movement joints present on the substrate and form control joints for every 50 m² approx.
- Application procedure for floating substrate. The homogeneously mixed mixture is evenly applied in the required thickness to the pre-made guide strips, after sufficient compaction, the surface is smoothed with a hand trowel or even mechanically. Conventional concrete reinforcement or steel mesh reinforcement can be used with **ASCOSCREED SL**.

POST APPLICATION PROCEDURE

- **ASCOSCREED SL** can be cleaned from tools and equipment by rinsing them immediately after use with

clean water. Any hardened residue will require mechanical removal.

CURING

- Extreme hot weather conditions or external applications need curing for a minimum of 3 days with at least 3 times per day water sprinkling depending on site condition. Internal application under a fully covered area does not require water curing, specially for very humid weather. To avoid water curing for external or extreme weather, a suitable curing compound range, such as **ASCOCURE AR 100** can be applied immediately after the trowel finish. For internal applications, it is to be air-cured.

PACKAGING

- 25 kg



COVERAGE


- Approx. 50 – 55 ft² for 3 mm bed thickness for 25 kg bag.

SHELF LIFE

- **ASCOSCREED SL**, when unopened, can be stored above the floor in a cool dry place for a duration of up to 9 months.



HEALTH & SAFETY GUIDELINES

- Take preventive measures to keep children away from this product. 
- Use personal protective equipment (PPE) to use **ASCOSCREED SL** for storage and application.
- Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use.
- Minimize prolonged skin exposure and refrain from inhaling the dust. If contact occurs, rinse the affected area with warm water and soap.
- In case, of eye contact, thoroughly wash the eyes and seek medical advice.
- For additional details, please consult the Material Safety Data Sheet.

TOOLS & ACCESSORIES

SCREEDING TOOLS



BUCKET



PLAIN TROWEL



SPIKE ROLLER



WIRE BRUSH



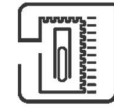
MIXER



BRUSH



SPIRIT LEVEL



NOTCHED TROWEL

DISCLAIMER:

This technical data sheet supersedes all previous versions from the immediate effect. The company guarantees its products against any manufacturing defects. The user should determine the product's usability for its intended use. Since the company has no control over site conditions and the installation procedures, the company would not be responsible under any circumstances for any loss, damage or liability from incorrect usage. For the products on which the company is offering a warranty, please refer to the warranty document to know the entire terms and conditions. The same can be availed on request or from the company website. All orders are accepted subject to our prevailing terms of sales and delivery. While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Our company maintains an active research and development policy, allowing us to continuously enhance our products. As a result, we reserve the right to revise this information at any time without prior notice. For optimal results, we recommend this product be installed by a qualified professional. By using this product, users acknowledge and agree to the terms and conditions outlined in this disclaimer.