



STARFIX

C1-SL

Product Data Sheet



DESCRIPTION:

STARFIX C1-SL is a free flowing, self-leveling, compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings. It is suitable for use as a repair and leveling course and may be applied at thickness from featheredge to 25 mm. **STARFIX C1-SL** is a one part system requiring only the addition of water for mixing.

APPLICATION

- Interior sound concrete sub-surface
- unlevelled floors
- Repair of old, worn concrete
- Wood floors
- Old floors with cut back adhesive
- Hospitals - hotels floors prior to carpeting

ADVANTAGES

- Flowable consistency for application
- Pumpable through standard equipment
- Self-leveling for smooth, flat floor
- Exceptional coverage rate for maximum yield and value
- Minimal shrinkage of resistance to cracking
- High early strength for early turn around
- Excellent bond strength for a composite floor section

DIRECTIONS FOR USE

Surface preparation

New concrete must be a minimum of 3 days old and must be broom textured at the time of placement to secure a good mechanical bond for the underlayment. If the new concrete is not finished with an appropriate

texture, follow surface preparation procedures below for old concrete.

Old concrete must be clean and textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scrubber, brush hammer, shot blast or scarifier which will give a surface profile similar to coarse grit sandpaper. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when, mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to complete dry.

Note: Even with proper procedures, an acid etched surface may not provide as strong a bond as those which are mechanically prepared.

All concrete must possess an open surface texture with all curing compounds and sealer removed.

Bonding

After the surface has been prepared, prime all areas.

Mixing

Small quantities of STARFIX C1-SL may be bucket mixed with a drill and "jiffy" mixer. Standard grouting or underlayment equipment should be used for placing large quantities of material. Add the appropriate amount of water for the batch size and then add the dry product. Do not use water at a rate that will cause bleeding or segregation. Typical water requirement is 5.8 liter/25 kg bag.

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Do not add more than 6.5 liter/25 kg bag. Mix for a minimum of 3 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately.

Application

For applications over 25 mm in thickness, add 9.0-11.3 kg of 3.2-9.5 mm aggregate to extend the initial layer. Placement options includes screeding or the use of pre placed aggregate grouting techniques. After 24 hours, prime the surface of the initial layer and place additional underlayment to achieve the final smooth surface.

Placement

The product must be continuously placed to provide a smooth and uniform surface. Start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers may be used to assist placement.

Finishing

This product is self-leveling and requires no finishing or troweling operation.

Curing

STARFIX C1-SL does not require curing with standard methods for most applications. Under hot-windy or rapid drying conditions, a fog spray or wet cure for 24 hours is recommended after final set of material.

Cleaning:

Clean the tools and equipment's with water before material get dry.

TECHNICAL SPECIFICATION

Compressive Strength

Standard	: ASTM C109	2 Hrs	10.0 MPa
Cube Size	: 50 mm	24 Hrs	16.0 MPa
		3 Days	19.0 MPa
		28 Days	34.0 MPa

Bond Strength

Standard	: ASTM C1042	7 Day	5 MPa
		14 Days	7 MPa

Set Time

Standard	: ASTM C191	Initial	45 min
		Final	70 min
		28 Days	6.2 MPa

PACKAGING SIZE:

STARFIX C1-SL is packaged in 25 kg bags.

COVERAGE:

25 Kg Bag will yield approximately 0.015 m³ material. Coverage for one bag is approximately 2.3 m² at a 6 mm thickness. Yield and coverage will vary depending upon the amount of water mixed with the STARFIX C1-SL. The product must not be mixed at a consistency which promotes bleeding and segregation. Under no circumstances add more than 6.5 liters of water per 25 kg bag.

HEALTH & SAFETY :

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

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EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

WARRANTY

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

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