

FIBER SCREED

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PRODUCT DESCRIPTION

Fiber screed is a flexible product made from cement and incorporated fibers.

- The fiber screed is specially designed and elaborated for deformation-sensitive supports such as wood floors, cracked cement supports and mixed supports (different supports).
- It is recommended for premises classified P4/P4S at most in new and renovation of buildings.
- This product is self-smoothing and can be painted.
- Apply to a thickness of 3 to 20mm, it allows to work on most supports and especially wood supports.

APPLICATION AREAS

Floor Interior in new or renovation buildings.

In new buildings:

- Ground to earth paving.
- Adhering or floating cement screed.
- Concrete flooring.
- Water heating floor including reversible and electric radiant floor.
- Anhydrite screed.
- Panel derived from wood.

In renovation building:

- Tile.
- Trace of acrylic, vinyl, and neoprene glue.
- Floor paint (polyurethane, epoxy, acrylic).
- Wood floor with blades on flaps or joists and dubbing floor.

NB: In the case of a new heating floor, the first heating and testing should be done before the stoving is installed. In all cases, the heated soil must be completely stopped at least 48 hours before and can only be restarted at least 48 hours after installation.

TOOLS NEEDED

- Measuring glass, 3 buckets of an appropriate size (about 30 liters) or dustbins (flat bottom), finishing trowel, stirrer (mounted on a drill).
- Tools must be cleaned with water immediately after use.
- Ideal application team: 3 people (two of the prepare the mix while the 3rd pours it). This combination allows working rapidly and to link the batches together to ensure the uniformity of application.

SURFACE PREPARATION AND PRIMERS

- The support should be resistant, non-friable, stable, dry (not exposed to moisture upwelling).
- The surface must be free of dust, clean, sound, free of loose parts and free of any product that could affect the adhesion: trace of oil, grease, paint, plaster, concrete milk, and glue traces. Remove them by cleaning and/or scraping and/or sanding.
- Fill the holes with a suitable product for your substrate.
- Repair localized cracks in the support by a product adapted according to the DTU.
- On all substrate, apply the adapted primary (recovery time, cf. Primary Technical Data Sheet)
- Specifics by substrate:
 - ✓ **Tile:** probe the cohesion of the tiles, remove the unsealed tiles and fill in their spaces. Clean your tiled floor with a 'St Mark's' laundry to remove any grease and ensure better grip. Rinse well and let dry. A surfacing (sanding) of the tile is strongly advised to allow a better grip of the system.
 - ✓ **Hydraulic screed (cement, excluding light screed...):** wait at least 28 days, in accordance with the D.T.U. before covering and probing the residual humidity of the support (it must be inferior to 4.5%).
 - ✓ **Wood-based support:** ensure that the wood is in conditions of medium humidity and that the presence of ventilation under the face of the floor is maintained, if not created her.
 - ✓ **New heating floor:** the first heating and testing must be done before the fiber screed. The heated floor must be completely stopped at least 48 hours before and can only be restarted at least 48 hours after product application.

- ✓ **Hot water heating floor:** pre-heating requirement (refer Technical Data Sheet of the Manufacturer).
- ✓ **Low-temperature electric heating floor:** Stop it 48 hours before the application of the fiber screed.
- ✓ **Anhydrite screeds (Calcium sulfate):** wait at least 8 weeks, in accordance with the D.T.U. before covering and probing the residual humidity which must be less than 0.5% according to the Technical Data Sheet of the screed manufacturer (carbide bomb test or measurement using a humidity meter). The screed will have to be sanded and then sucked in.
- ✓ **Paint:** Check its adhesion by grid test (no peeling area should be visualized), clean its surface by sanding and dusting.

Primers Overview

| | |
|---|--|
| <ul style="list-style-type: none"> • Hydraulic screed or other porous supports or in some cases "damaged" supports • Wood | <ul style="list-style-type: none"> • Textured All-Surface Primer respecting the consumption indicated for a concrete look seamless floor product |
| <ul style="list-style-type: none"> • Tile and tiles of cement inside or in some cases old not porous screed, old terracotta (after degreasing) • Old coatings | <ul style="list-style-type: none"> • Textured All-Surface Primer |
| <ul style="list-style-type: none"> • Anhydrite screeds | <ul style="list-style-type: none"> • Textured All-Surface Primer: The support must be devoid of milk and dusted. The humidity of the screed should be less than 0.5% (test of the carbide bomb or measure with a humidimeter). Apply a first layer diluted to 20% and then pass a second undiluted layer (respect the recommended coverage) |

Other substrate: Consult us

MIX PRAPERATION

- For a 25kg bucket into **6L** of water and mix with an electric mixer (500tr/min max).

WARNING:

- ✓ Excessive amount of water added to the mix might lead to cracks and other technical problems.
- ✓ A lack of water could result in a less creamy mixture and thus a product that does not stretch properly.

To obtain a good distribution of fibers, it is imperative to extend the mixing time compared to a non-fibrous screed, until a homogeneous paste without lumps.

APPLICATION

- Ideal ambient temperature of application: +5 to +30 °C
- Minimum floor temperature for application: +10°C
- Practical time to use about 20 minutes after mixing (for a temperature of 20°C and an ambient humidity of 65%)
- Relative humidity of ambient air: less than 65%

- Pour gently the mixture onto the floor.
- The fresher batch (more fluid consistency) will slightly overflow on the previous one to even out the surface.
- With the help of the finishing trowel., help the product to set up and allow it to go into the corners...).
- Specially attention for the fitting with the bottom of the walls.

- Avoid exposure to wind and sun when applying and drying. Close shutters or obscure windows and avoid drafts. Block drafts under doors to avoid the risk of crazing at these locations.

FINAL DRYING

The product must be protected from frost, wind, and sun while it is being taken and hardened. Do not use tarpaulins, cardboard, carpets, which would prevent the product from drying in good conditions.

- The deadlines are indicated for an ambient temperature of 20°C and may vary depending on the application conditions.
- Waiting time before traffic (preferably in socks): about 3 hours depending on ambient humidity and temperature conditions.
- Recovery time before our 'waxed concrete': depends on the thickness of the fiber screed applied and the humidity and ambient temperature conditions. We recommend checking the residual humidity level by measuring it with a moisture meter (the value must be less than 1% humidity).
- **Heating (ground or ambient heating)** no earlier than 48 hours after application and gradually, as a temperature difference between the support and the ambient air can create slight micro-cracks (less than the thickness of a hair).

COVERAGE and PACKAGING and STORAGE

- Coverage: 1.6 kg/m²/mm
- Formats: A 25kg bucket of powder
- The products can be stored for 1 year in their original, under packaging, free from moisture and heat.

Surface recoverable with a kit depending on thickness:

| | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|
| Thickness (mm) | 3 | 4 | 5 | 6 | 7 | 8 |
| Covered area (m ²) | 5.2 | 3.9 | 3.1 | 2.6 | 2.2 | 1.9 |

RELATED PRODUCTS MERCADIER

- Coloured Concrete (EBC) / PURE[®] Mineral Béton (PMB)/ Self-Smoothing Floor SC+ / Self-Levelling Floor RBX / Self-Levelling Floor AXXX

RECOMMENDATION AND WARNINGS

- See the most recent version of this Technical Data Sheet (see website). Our Distance Sales service and our distributors are at your disposal for further details.
- Decorative coating such as layered polished concrete is the material with a 'continuous aspect', seamless and almost without fractionation. Having certain flexibility, it accepts a slight surface deformation, but up to a certain extent. Thus, this decorative material is sensitive for surface movements (similarly to paint or any other decorative coating). If the surface suffers from substantial differential movements, decorative coating might become cracked despite any precaution measures taken while laying the product.
- Performance and durability guarantee for the decorative coating may be given only in case a complete system of MERCADIER products is used (primer, product itself, sealer) and strictly according to instructions for application and maintenance of the system. Thus, the manufacturer will not be liable for poor product's performance if an application did not conform to our instructions and if the integral system was not used.
- All the information, tips and advice relative to final illustration of MERCADIER products are given in good faith. They are based on knowledge and experience that MERCADIER has acquired so far regarding its products that were appropriately stored and handled and applied in normal conditions. In practice, the differences between materials, surfaces and specific application conditions are such that provided information, written recommendations or given advice do not imply any warranty of merchantability other than the legal warranty against hidden defects.
- Colours and aspects in our color charts are indicative and cannot be considered as contractual. The same is applied for boards and panels displayed at retail outlets. It is preferable to use identical samples as much as possible. These products lead to results with subtle differences that can also arise depending on application conditions (applicator's gestures, temperature etc)

HYGIENE AND SECURITY

DANGER: Contains Portland Cement, Chemicals Products

Danger mentions:

- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage

Prudence's tips:

- P101 If medical advice is needed, have product container or label at hand
- P102 Keep out of reach of children

Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves for protective clothing an eye and face protection equipment

Intervention

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor /

Disposal

P501 Dispose of contents/container to a disposal center in accordance with local regulations



In accordance with the new French regulations that impose limits on the rate of VOC (Volatile Organic Compound), present in the products of construction this product Mercadier respects the environment. These regulations require that construction and decoration products must be labelled with a simple and legible label indicating their level of emissions of volatile pollutants (VOCs).

Information on the level of emissions of volatile substances into indoor air, at risk of inhalation toxicity, on a class scale ranging from A-- (very low emissions) to C (high emissions).