

# FIBRED SCREEDS

## PRODUCT DESCRIPTION

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Fiber-reinforced patching is a flexible patching product based on cement and embedded fibers.

- Fiber-reinforced patching is specially designed and developed for deformation-sensitive substrates such as wood floors, cracked cementitious substrates and mixed substrates.

It is recommended for premises classified as P4/P4S or lower, for both new-built and renovation projects.

- This product is self-leveling and can be painted.

- Applied at a thickness of 3 to 20 mm, it can be used on most substrates, particularly wood.

## APPLICATION AREA/SURFACE

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Interior flooring for new build or renovation.

New build:

- Floating floor.

- Bonded or floating cement screed.

- Concrete floor.

- Water underfloor heating includes reversible and electric radiant underfloor heating.

- Anhydrite screed.

- Wood-based panel.

Renovation :

- Tiling.

- Acrylic, vinyl and neoprene glue.

- Floor paint (polyurethane, epoxy, acrylic).

- Wooden floorboards on joists or joists and lining.

NB: In the case of a new underfloor heating system, initial heating and testing must be carried out before laying the levelling compound. In all cases, the underfloor heating system must be completely switched off at least 48 hours before installation and cannot be switched back on until at least 48 hours after installation.

## NECESSARY TOOLS

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- Measuring glass, suitably sized mixing buckets (approx. 30 litres) or dustbins (flat-bottomed), Flemish float or stainless steel float, mixing whisk (fitted to a drill with a variable speed drive).

- All tools should be cleaned with water immediately after use.

- Ideal application team: 3 people (2 prepare the mixes while the other applies). This makes it possible to work quickly and follow on from one pour to the next, limiting the amount of material to be reworked.

## SURFACE PREPARATION & PRIMERS

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- The substrate must be resistant, sound, stable and dry (not exposed to rising damp).
- The surface must be dust-free, clean, sound, free of loose parts and free of any product likely to impair adhesion: oil, grease, paint, plaster, concrete laitance and traces of adhesive. Remove them by cleaning and/or shot-blasting and/or sanding.
- Fill holes with a suitable product.
- Repair localised cracks in the substrate with a suitable product in accordance with current DTU.
- On all substrates, apply the appropriate primer (coverage time, see primer Technical Data Sheet).
- Subfloor specifics :
  - **Tiling:** check the cohesion of the tiles, remove loose tiles and fill in where necessary. Clean your tiled floor with 'St Marc' detergent to remove all traces of grease and ensure better adhesion. Rinse well and leave to dry. We strongly recommend that you sand the tiles to improve the adhesion of the system.
  - **Hydraulic screed (cement, excluding light screeds, etc.):** wait at least 28 days in accordance with the D.T.U. before covering and check the residual moisture content of the substrate (a moisture content of less than 4.5% is required).
  - **Wood-based subfloors:** ensure that the wood is in conditions of average humidity and that ventilation is maintained on the underside of the floor, otherwise it must be created.
  - **New underfloor heating:** initial heating and testing must be carried out before the fibre-reinforced finish is applied. The underfloor heating system must be completely shut down at least 48 hours beforehand, and cannot be restarted until at least 48 hours after it has been poured.
  - **Hot water underfloor heating:** prior heating is essential (refer to the manufacturer's Technical Approval).
  - **Low-temperature electric underfloor heating:** must be turned off 48 hours before laying the fibre-reinforced screed.
  - **Anhydrite screed (calcium sulphate):** wait a minimum of 8 weeks, in accordance with the D.T.U., before covering and check the residual moisture, which must be less than 0.5%, in accordance with the screed manufacturer's Technical Data Sheets (carbide spray test or measurement using a moisture meter). The screed should be sanded and then vacuumed.
  - **Paint:** Check its adhesion using a grid test (no chipped areas should be visible), clean the surface by sanding and dusting.

## Summary of the Primaries

Chapes hydrauliques ou autres supports poreux ou dans certains cas de supports « abimés » Bois	<ul style="list-style-type: none"> <li>• Primaire Sablé Multi-Support en respectant les consommations indiquées pour un sol coulé</li> </ul>
Carrelage & carreaux de ciment intérieur ou dans certains cas anciennes chapes non poreuses, anciennes terres cuites (après dégraissage) Anciennes peintures	<ul style="list-style-type: none"> <li>• Primaire Sablé Multi-Support</li> </ul>
Chapes anhydrites	<ul style="list-style-type: none"> <li>• Primaire Sablé Multi-Support : Le support doit être dépourvue de laitance et dépoussiéré. Le taux d'humidité de la chape doit être inférieur à 0.5% (test de la bombe a carbure ou mesure à l'aide d'un humidimètre). Appliquer une première couche diluée à 20% et passer ensuite une deuxième couche non diluée (respecter le rendement préconisé)</li> </ul>

Other materials: Please contact us

## MIX PREPARATION

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- Pour a 25kg bucket into 6L of water and mix with an electric mixer (500rpm max).

### CAUTION:

Adding more water than the proportions indicated above could lead to cracks and other technical problems.

A lack of water could result in a less creamy mix and a product that does not stretch properly.

To achieve good fibre distribution, it is essential to extend the mixing time compared with a non-fibre plaster, until a homogeneous, lump-free paste is obtained.

## IMPLEMENTATION

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- Ideal ambient temperature for application: +5 to +30°C

- Minimum floor temperature for application: +10°C

- Practical pot life: approximately 20 minutes once mixed (for a temperature of +20°C and 65% ambient humidity).

- Relative humidity: less than 65%.

- Gently pour the mixture onto the floor.
- The freshest batch (more fluid consistency) will slightly overflow the previous one to even out the surface.
- Using the Flemish float, help the product to settle and allow it to go into corners...).
- Pay particular attention to the connection with the bottom of the walls.
  
- Avoid exposure to wind and sun during application and drying. Close shutters or obscure windows and avoid draughts. Block draughts under doors to avoid the risk of crazing in these areas.

## FINAL DRYING

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The product must be protected from frost, wind and sun during setting and curing. Do not use tarpaulins, cardboard or carpets that would prevent the product from drying properly.

- Times are given for an ambient temperature of +20°C and may vary according to the conditions of use.
- Waiting time before foot traffic (preferably in socks): approx. 3 hours depending on humidity and ambient temperature.

Cover time before our 'waxed concretes': depends on the thickness of the fibre-reinforced patching applied and the ambient humidity and temperature conditions. We recommend checking the residual moisture content using a moisture meter (the value should be less than 1% moisture).

- Reheat (underfloor or room heating) at the earliest 48 hours after application and gradually, as a difference in temperature between the substrate and the ambient air can create slight micro-cracks (less than the thickness of a hair).

## YIELD & PACKAGING & CONSERVATION

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- Coverage: 1.6kg / m<sup>2</sup> / mm
- Packaging: 25kg pail of powder
- Products can be stored for 1 year in their original, unopened packaging, away from heat and moisture.

**Area that can be covered with a kit depending on thickness :**

Epaisseur en mm	3	4	5	6	7	8
Surface couverte en m <sup>2</sup>	5,2	3,9	3,1	2,6	2,2	1,9

## ASSOCIATED PRODUCTS

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- SC+ / RBX / AXXX / Enduit Béton Coloré EBC / PURE® Minéral Béton PMB

## RECOMMENDATIONS AND SAFETY PRECAUTIONS

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See the most recent version of this technical data sheet (see website). Our distributors and technical support are also at your disposal for any clarification.

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 related to the final illustration of MERCADIER products are given in good faith. They are based on the 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.

Colors and aspects in our color charts are indicative and cannot be considered as contractual. The same applies 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 SAFETY

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**DANGER:** Contains Portland cement, chemicals

**Hazard statements :**

H317 May cause skin allergy

H318 Causes serious eye damage

**Safety advice :**

P101 If a doctor is consulted, keep container or label available.

P102 Keep out of reach of children.

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapour/aerosol.

P280 Wear protective gloves protective clothing eye and face protection

**Intervention**

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

**Disposal**

P501 Dispose of contents/container in accordance with local regulations.

## SAFETY / PRECAUTIONS

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Refer to the product Safety Data Sheet



In accordance with the new French regulations that establish limit value for the VOC (Volatile Organic Compound) present in constructions materials, this product MERCADIER respects the environment. This regulation states that construction and decoration products must be provided with a label indicating the level of volatile organic compound emission in a simple and readable way.

\* Information on the level of emissions of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).

The information contained in this data sheet is based on our knowledge and on test results. It may under no circumstances be considered as providing a guarantee, nor as engaging our responsibility in the event of faulty application.