



Rapid S1



Cement based rapid setting flexible adhesive for interior and exterior use when installing porcelain, ceramic or non moisture sensitive natural stone materials to floors

CLASSIFICATION IN COMPLIANCE WITH EN 12004

Rapid S1 is an improved formula (2), Fast setting (F), Extended open time (E), Cementitious (C), Deformable (S1) adhesive classified as C2FE S1 Available in Grey or White.

WHERE TO USE

Interior and exterior bonding of ceramic and porcelain tiles and mosaics and natural stone materials that are not sensitive to moisture. Use **Rapid S1** white for the installation of light coloured natural stone.

Some application examples

- Installation on to suitably prepared timber substrates such as 15 mm overlaid plywood floors.
- Rapid installation or renovation of areas subject to pedestrian traffic.
- Rapid installation or renovation of bathrooms, showers, kitchens, terraces and balconies.
- Installing marble and natural stone materials not sensitive to moisture.
- Suitable for installation over Encapsulated Wet and Electrical underfloor heating systems.

TECHNICAL CHARACTERISTICS

Rapid S1 is a powder composed of a mixture of special cements, selectively graded aggregates, synthetic resins and accelerators that develop a high bond strength only 3 hours after setting. For this reason floor installations can be completed very quickly. Floors can be walked on after only 3 hours and are ready for general traffic after 24 hours. When hardened **Rapid S1** is frost and water resistant.

RECOMMENDATIONS

Anhydrite screeds are to be abraded, vacuumed and primed with a suitable MAPEI primer such as **Plaster Primer** or Mapei **Primer G**.

Plywood overlaid floors must use a minimum 15 mm exterior grade plywood and be fixed at maximum distance of 300 mm centres in all directions to provide a rigid substrate. For enhanced bond apply Mapei **Eco Prim Grip**.

Not suitable for areas subject to flexing or vibration.

Application procedure

Rapid S1 can be applied to all substrates that are free of oils, grease, waxes and that are sound and free of laitance and crazing. Damp cement screeds can noticeably prolong the setting time of **Rapid S1**.

Preparing the mix

Rapid S1 must be mechanically mixed in a clean vessel with clean water until a smooth lump free paste is obtained. Allow the product to stand for 2-3 minutes before re mixing. The product must be used within 20 minutes.

Rapid S1 20 kg should be mixed with 4-4.4 litres of clean water.

Applying the mix

Rapid S1 is applied to the substrate with a notched trowel to a max 8 mm thick.

Adhesive coverage will be determined by the notch size chosen and should be 100% as far as possible for floors, exterior and wet areas. For tiles exceeding 300x300 mm **Rapid S1** should also be applied to the backs of the tiles (back-buttering).

For very absorbent surfaces or during hot weather the substrate should be dampened to extend the open time of the adhesive.

Laying the tiles

It is not necessary to wet the tiles before fixing, however if the backs of the tiles appear dusty they should be wiped over with a wet sponge.

Rapid S1 has an open time of 10-15 minutes in normal temperature and humidity; unfavorable weather conditions (strong sun, drying wind, high temperature), or a highly absorbent substrate will shorten this open time, sometimes to just a few minutes. Should the

adhesive form a skin it should be removed and fresh adhesive applied.
Tiling fixed with **Rapid S1** must not be subjected to washout or rain for at least 3 hours and protected from strong sun and frost for at least 24 hours.

Grouting

Tile joints can be grouted after 2-3 hours with an appropriate Mapei grout.
If the joints require better chemical resistance or where hygiene is of importance use Mapei **Kerapoxy CQ** or **Kerapoxy Design**.
Expansion joints should be filled with **Mapesil AC**, **Mapesil LM** or **Mapeflex PU21**.

Cleaning

Tools and hands can be cleaned with water, tiled surfaces should be cleaned with a damp cloth; water should only be used in moderate quantities and after a few hours.

CONSUMPTION

2.5-3 kg/m² when using normal size tiles.

PACKAGING

Rapid S1 Grey and White is supplied in 20 kg paper bags.

STORAGE

Rapid S1 should be stored in a dry place, where it will have a maximum shelf life of 12 months in unopened original packaging.

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Rapid S1 contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. During use wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.



N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.co.uk.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.



**PORCELAIN, CERAMIC TILES AND MOSAICS
ON FLOORS, INTERIOR AND EXTERIOR**



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