



Data Sheet No:
TDS 114
Version 8

SOVEREIGN

TECHNICAL INFORMATION SHEET

PORCEL-FLEX RAPID SET

Description

Sovereign Porcel-Flex is specially formulated for the rapid fixing of ceramic floor and wall tiles both internally and externally. With built in flexibility and adhesion promoter it is ideal for fixing direct to timber floors and for areas that may be subject to vibration. Suitable for use in conjunction with under floor heating. Its rapid setting formula allows for light foot traffic after 2 – 3 hours. Conforms to the requirements of BS EN 12004 Type C2 FT S1

Form Supplied: Dry powder
Pack Sizes: 20 kg
Colour Range: Grey & White

Properties

Suitable for fixing all types of tiles including porcelain, fully vitrified, marble, mosaics, terrazzo, brick slips, natural and artificial stone, concrete tiles and lightweight polystyrene to most building materials without the need for expensive additives. It is suitable for use as both a thin and thick bed adhesive. NOTE: Pale coloured marble/porcelain can be translucent and dark coloured adhesive can sometimes show through. If in doubt we would recommend tiling a small trial area or use the white grade of Porcel-Flex.

Preparation

All tiling should be in accordance with BS 5385 Code of Practice for Floor and Wall Tiling. All surfaces must be sound, clean and free from dust, dirt, grease or other loose materials. New concrete and cement screeds must have matured for at least one month and be fully dry before tiling.

If the base is not concrete, sand cement, blockwork or brickwork, further preparation is required:

Wooden Floors

Timber bases **must** be rigid. Screw down floorboards to the joists and then overlay with marine grade ply **at least** 12mm thick and screwed at 300mm centres. Seal rear and edges of timber, do not prime the surface, but clean off timber dust.

Vinyl Tiles

Ensure tiles are firmly fixed. Prime with 1 coat of SBR bonding agent diluted with water 3:1.

Glazed Tiles

Either roughen the glaze with an abrasive disc or prime with a coat of SBR bonding agent diluted 1:1 with water and mixed with fresh cement.

Internal Flooring Grade Asphalt

Prime with 1 coat of SBR bonding agent diluted with water 3:1.

Painted Surfaces

Mechanically remove paint before tiling.

Mixing

Sovereign Porcel-Flex should be added to a clean container and mixed with water to give a thick paste. As an approximate guide use 1 part clean water to 5 parts adhesive. Once mixed the adhesive is ready to use and has a working time of approximately 20 – 30 minutes at 20°C. Do not mix more adhesive than can be used in this time. Do not add more water to adhesive that has started to set. Set time is dependant on temperature, do not use below 5°C.

Fixing

For fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed, into which the tiles are firmly bedded with a twist and slide action to ensure full contact. Use a 3mm x 3mm notch at 6mm centres for mosaics and thin flat backed wall tiling, a 6mm x 6mm notch at 12mm centres for general wall tiling and 20 mm round notch at 30mm centres for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed mortar bed is approximately 20 minutes, depending on surface porosity and site conditions. It is recommended that tiles with raised or studded back profiles should be thinly buttered to ensure solid bed fixing. Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period.

Floor tiles must be fixed into a solid bed of adhesive so that no voids remain under tiles. Under no conditions should tiles be fixed using the "dot and dab" method. Wall tiles must have a minimum 75% contact, rising to 100% when used in wet areas.

Movement joints must be placed in large areas of tiling as specified in BS 5385 Part 1 and 2. **ALL** structural joints must be carried through the adhesive and tile bed. Grouting may be carried out as soon as the tile bed is firm, usually within 2 hours after fixing at 20°C. Floor will accept light foot traffic after approximately 2 hours and will accept full loading after 12 hours. When fixing tiles to timber floors, Sovereign Flexible Floor Grout **must** be used.

Clean Up

Clean all tools and equipment with water before the adhesive has had time to set.

Information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that product, techniques and codes of practice are under constant review and changes occur without notice. Please ensure you have the latest updated information.

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Limitations

Gypsum plaster must be totally sealed with Sovereign SBR. Sovereign Watertite should be used where damp conditions exist. Anhydrite screeds must be sanded, sealed and fully dry before application of cement based materials. If in doubt about the products suitability please contact our Technical Department.

Coverage

Fixes approximately 5 – 9 m² per bag depending on trowel used.

Storage

This product must be stored under cover, in unopened bags clear of the ground in cool dry conditions, protected from frost and excessive draught. When stored correctly, as above, and used within 6 months of the date shown on this packaging, the activity of the reducing agent added will be maintained and this product will contain, when mixed, no more than 0.0002% (2ppm) soluble chromium (VI) of the total dry weight of the cement.

Health and Safety

R36 Irritating to skin.

R41 Risk of serious damage to eyes.

Contact between cement powder and body fluids (e.g. sweat and eye fluids) may cause irritation, dermatitis or burns. There is a risk of serious damage to eyes. Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. After contact with skin wash immediately with plenty of clean water. Keep out of reach of children. For full health and safety information see Safety Data Sheet reference number SDS 114.

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