



Never compromise on quality

PORCELAIN AND NATURAL STONE TILE ADHESIVE

Ideal For Large Format Natural Stone Tiles



Description

A specially formulated, flexible, non-slip, fast setting, cement based tile adhesive. Suitable for beds of 3-12mm, interior and exterior grade, for wall and floor installations. Conforms to EN 12004 Class C2FT.

Uses

PORCELAIN & NATURAL STONE TILE ADHESIVE has been developed for fixing ceramic, porcelain, large format, natural stone, marble, travertine and mosaic tiles to a variety of substrates including heated screeds and overboarded timber.

PTA is water resistant making it suitable for use in bathrooms, saunas and swimming pools. Conforms to EN 12004 C2FT. **Note:** We offer this product in 2 colours, white and grey; for porcelain or light coloured tiles, that may be subject to staining, you must use the white based powder to avoid trowel marks grinning through.

Preparation

All substrates must be suitably dry and comply with the recommendations in the British Standards and TTA Guidance documents. All substrates should be clean and thoroughly sound; they should be free from standing water, oils, grease, dust, loose particles or any other contaminants that may hinder adhesion.

Gypsum Based Screeds: These generally require mechanical preparation by buffing and vacuuming, etc. The screed must be tested to ensure it is dry (less than 0.5% moisture content measured by CM). All gypsum based screeds should be primed as follows: first coat Bond It PRIMER AND FLEXIBLE ADMIXTURE diluted 1:1 with water and allowed to dry; second coat PRIMER AND FLEXIBLE ADMIXTURE applied neat and allowed to dry fully.

Gypsum Plaster: Gypsum plaster on walls is suitable for a weight of tiles and adhesive of up to 20kg/m². Plaster should not be dusty or overly polished and should be primed with Bond It PRIMER AND FLEXIBLE ADMIXTURE.

Concrete: Ensure that these are dry and cured through. Freshly laid concrete can take up to 3 months to fully cure. Do not apply tiles until it is fully cured.

Painted Surfaces: Any loose or water sensitive paint should be removed. Any subsequent bonds to a painted surface are only as strong as the paint film.

Rough and Uneven Surfaces: These should be levelled with a suitable levelling compound and allowed to dry before tiling.

Underfloor Heating: New heating systems must have been trialled at a high temperature for a period of at least 48 hours in advance of tiling. Ensure the heating is turned off at least 48 hours before any tiling work is carried out and not turned on until at least 7 days after the work has been completed. Heating should be turned on at the lowest setting and the temperature increased by no more than 5°C per 24 hours. Particular attention should be given to ensure there is adequate provision for movement joints in tiling.

Timber Substrates: Timber substrates must be sufficiently rigid and supported to be free from excessive deflection under expected loads. Ensure adequate ventilation exists beneath the floor. Ensure all new wood (including joists) is 'dry' and conditioned. The floor should be designed to accommodate both seasonal changes in moisture and the changes caused by step changes in heating. Extra joists/ noggins should be added to strengthen the floor as required. In wet areas timber substrates must be suitably tanked. Plywood on walls is suitable for a weight of tiles and adhesive up to 32kg/m². On floors, existing floorboards should be overboarded. Plywood used for overboarding must be at least 15mm thick exterior grade. Boards should be free from any wax or other coating which may impair the bond. Ensure surface is free from contamination and that the backs and edges of all boards are sealed against moisture ingress. Boards should be laid broken-bonded with the long edges running at right angles to the joints between the existing boards and screwed to joists and existing boards at 300mm centres.

Movement Joints: It is important to ensure that there is adequate provision of movement joints in all wall and floor tiling. It is recommended to follow the guidance

provided in BS 5385, by the TTA and by proprietary joint manufacturers. Ideally, movement joints should be detailed by the designer at the outset.

Mixing

The adhesive should be added to clean water (approx. 5L water/ 20Kg) adhesive and mixed with a suitable forced action mixer or slow speed drill and paddle until a slump free mortar is produced. The mixed adhesive is usable for up to 45 minutes depending on site temperature and conditions. Do not attempt to remix adhesive or add extra water after it has begun to stiffen as this will cause a loss of performance.

Application

Cement based products will take longer to harden and set at lower temperatures and should not be used below 5°C. The mixed adhesive should be applied to dry areas on walls using a suitable notched trowel and applied by solid bed on wet areas on walls, on all exterior tiling and on all floor tiling. In addition, when fitting large format tiles it is highly recommended to also fully skim the back of the tile with a thin layer of adhesive. Tiles should be placed with a firm twisting action before the adhesive has skinned over i.e. within the open time. Regularly check to ensure adequate contact between adhesive, tile and substrate. 'Dot and Dab' is not a suitable method of application. Final set will occur after approximately 3 hours depending on temperature. Clean off surplus adhesive with a damp cloth before it sets. It is important that the tiles are left undisturbed for a minimum of 2 hours after fixing at normal temperatures. Do not use at temperatures below 5°C or in conditions of extreme heat.

Grouting

Grouting may proceed only when the adhesive has cured. Depending upon conditions this is normally after approximately 3 hours. Cold or humid conditions will slow drying times.

Coverage

This will vary according to application technique, substrate and type of tile used. However, a 20Kg bag will cover approximately 5m² with a 3mm bed thickness.

Storage Conditions

(Chromium VI): This product must be stored in unopened manufacturers bags away from extremes of temperature and in dry conditions. This product must be used before the "Use By" date as shown on the bag. Use of this product after the use by date or incorrect storage may increase the risk of an allergic reaction from Chromium VI. As a guide the shelf life for white is 12 months and 6 months for grey.

Cleaning

Tools should be washed with water immediately after use.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Remove any bags or used material to a central disposal point in accordance with local regulations.



BOND IT

G16 River Bank Way, Lowfields Business Park,
Elland, West Yorkshire. HX5 9DN

13

EN12004:2007+A1:2012

Improved, fast setting cementitious
adhesive with reduced slip for internal and
external tiling

Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength, as:	
Early tensile adhesion strength	≥0.5N/mm ²
Initial tensile adhesion strength	≥1N/mm ²
Durability, for:	
Tensile adhesion strength after heat ageing	≥1N/mm ²
Tensile adhesion strength after water immersion	≥1N/mm ²
Tensile adhesion strength after freeze/ thaw cycles	≥1N/mm ²

Health & Safety

IRRITANT. CONTAINS CEMENT.

Contains Chromium (VI). Risk of serious damage to eyes. Contact with wet cement, wet concrete or wet mortar may cause irritation, dermatitis or burns. Contact between cement powder and body fluids (eg. Sweat and eye fluid) may also cause skin and respiratory irritation, dermatitis or burns. May produce an allergic reaction. Avoid skin and eye contact. Wear suitable eye protection, clothing and gloves. Clothing contaminated with cement should be removed and washed before re-use. Avoid breathing dust. Keep out of reach of children. On contact with skin, rinse immediately with plenty of clean water. Seek medical advice after eye contact.

Note: this information is for general guidance only, since site conditions and labour are beyond our control. It is recommended that users make their own tests to determine suitability.

Specification Summary

Colour	Grey or white
Form	Powder
Application Temperature	+5°C to 30
Bed Thickness	3 to 12mm
Open Time	approx 10 mins @ 20°C
Grout After	2 to 3 hours
Light Foot Traffic	2 to 3 hours
Full Traffic	6 hours
Coverage	approx 5m ² / 20Kg sack @ 3mm

Container Sizes

Code:	BDPTA20GR (Grey)	BDPTA20WH (White)
Size:	20Kg	20Kg
Barcode:	5060021369673	5060021369512

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.



Certificate Number: 6152
ISO 9001
ISO 14001



BOND IT
Unit G16 River Bank Way, Lowfields Business Park,
Elland, West Yorkshire HX5 9DN.
Telephone: +44 (0)1422 315300 Fax +44 (0)1422 315310
Email: sales@bond-it.co.uk Website: www.bond-it.co.uk



V1 13/01/14