

CTA FLEXIBLE (WHITE)

Flexible Water Resistant Cement Based Ceramic Tile Adhesive

Technical Data Sheet



PROFESSIONAL TILING RANGE

CLASS
C2TES2

Description:

A white, cement based, flexible ceramic floor and wall tile adhesive with built in admix. Conforms to EN 12004 Type C2 T E S2. Suitable for large format and porcelain tiles.

Benefits:

- ♦ *Excellent bond strength and high grab.*
- ♦ *Water resistant.*
- ♦ *Flexible / non-slip.*
- ♦ *Suitable for ceramic, porcelain, vitrified and natural stone tiles.*
- ♦ *For internal and external use.*

Uses

Bond It **CTA FLEXIBLE** is a white, cement based, thin and thick bed, standard setting, wall and floor tile adhesive. **CTA FLEXIBLE** offers properties such as; high grab, non-slip and flexibility making it suitable for use in areas subject to limited movement and vibration, internally and externally. Suitable for use with all types of ceramic floor and wall tiles, mosaics, porcelain, natural stone, marble and travertine tiles onto substrates including; underfloor heating, tile on tile and properly prepared sheeted timber. This product is particularly ideal for use with porcelain and light coloured tiles (ones which may be subject to staining) as it will prevent trowel marks grinning through. It is water resistant making it suitable for use in bathrooms, saunas and swimming pools.

Preparation

All surfaces, including existing tiles, must be clean, structurally sound and free from dust, oil, grease, curing compounds, wax residues, paint and any other contamination that may prevent adhesion. Any separating agents must be removed. **CTA FLEXIBLE** can accommodate minor surface irregularities provided that the bed thickness does not exceed 6mm (up to 12mm in isolated areas).

Porous gypsum, aerated concrete and interior asphalt substrates should be primed with products such as Bond It PRIMER AND FLEXIBLE ADDITIVE (P&FA). Note: PVA is not recommended for priming.

Plastered surfaces must be strong enough to support the combined weight of the tiles and adhesive. Allow 4 weeks for plaster to dry. Plaster and plywood must be primed with Bond It PRIMER AND FLEXIBLE ADDITIVE.

Tongue and groove floorboards should be covered with a minimum of 15mm exterior grade plywood sheet, screwed at



300mm centres and primed accordingly. Chipboard must not be used. The surface of existing tiles should be sound, any loose or hollow sounding tiles should be made secure. Any surface contaminants must be removed.

When tiling on **vinyl tiles**, check they are securely bonded and are free from polish, wax or other substances that may impede adhesion. Provide a key by rubbing with coarse sandpaper and prime with Bond It PRIMER AND FLEXIBLE ADMIXTURE.

When tiling on substrates incorporating **underfloor heating**, turn off 48 hours before tiling and do not turn on for 48 hours after completion, from a low setting slowly increasing the temperature by +5°C per day.

Anhydrite/calcium sulphate screeds should be sanded and vacuumed before priming with 2 coats of Bond It PRIMER AND FLEXIBLE ADMIXTURE and left to dry for 24 hours prior to application.

Mixing

20Kg of **CTA FLEXIBLE** should be mixed to 5L of clean water. Slowly add the powder to the water while stirring with a suitable slow speed drill or paddle. Never add more water to a mixture that has begun to set.

Application

Taking account of surface irregularities, use a suitable sized notched trowel that will give 100% coverage of adhesive to the back of the tile. Press and twist the tiles into place ensuring a minimum bead thickness of 3mm. For deep studded tiles, large format tiles (larger than 250 mm x 300 mm) or for wet areas, it will be necessary to butter the back of the tile with adhesive to improve adhesion. Remove and inspect the back of a tile occasionally to ensure adequate bedding is being achieved. Expansion joints must be provided according to the relevant part of BS5385. 'Dot and Dab' is not a recommended method of application. Do not use in temperatures below +5°C.

Final set will occur after 24 hours.

Grouting

Grouting may proceed only when the adhesive has cured sufficiently to accept light foot traffic. Depending upon conditions this is normally after approx. 12 hours. Cold or humid conditions will slow drying times.

Cleaning

Tools should be washed with water immediately after use.

Coverage

Coverage is dependant on application technique, substrate and type of tiles used. However, 20Kg of **CTA FLEXIBLE** will cover approx 6 - 7m² @ 3mm bed thickness.

Container Size

20Kg paper sacks.

Colour

White powder.

Shelf Life

12 months from date of manufacture when stored in unopened sacks.

Storage Conditions

This product must be stored in unopened manufacturers bag away from extremes of temperature and in dry conditions.

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.

Health & Safety

Please refer to separate material safety data sheet for full handling, use and storage instructions. Keep out of reach of children. It is the users responsibility to determine suitability for use. If in doubt contact our Technical Department for advice.

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

Bed Thickness	3 to 6mm
Pot Life	4 to 5 hours
Grout After	12 hours
Light Traffic	12 hours
Full Traffic	24 hours
UFI	M530-M079-400Y-VTWR

Product / Order Details:

Code	Colour	Size	Barcode
BDCTAF	White	20Kg	5060021363565



Part of the Bond It Professional Tiling Range



Certificate Number:
6152
ISO 9001; ISO 14001;
ISO 45001



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CE	UK CA
1289 13	1289 22
BOND IT G16 River Bank Way, Elland. HX5 9DN. UK	
EN12004:2007+A1:2012 Improved deformable cementitious adhesive with reduced slip and extended open time for internal and external tiling	
Reaction to fire	Class E
Release of dangerous substances	See MSDS
Bond strength Tensile strength after 30 minutes	≥0.5 N/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
Slip	≤0.5mm
Traverse deformation	≥2.5mm
Shear adhesion strength at elevated temperatures	≥ 1N/mm ²
Shear adhesion strength after water immersion	≥ 0.5N/mm ²

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 expressed or implied, of the fitness or suitability of the products for a particular purpose.

