



Never compromise on quality!

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# CTA

## Ceramic Tile Adhesive

### Description

**A specially formulated, white, cement based ceramic floor and wall tile adhesive. Conforms to BS5980 Type 1: Class AA (Specification: BS EN 12004 Type C, Class 1T.)**

### Uses

Bond It CTA is a specially formulated, cement based adhesive suitable for bonding ceramic tiles, mosaics, natural stone cladding materials and brick slips to concrete, sand/cement, blockwork and brickwork. It can also be used for bonding rigid foam insulating materials, eg polystyrene and polyurethane, etc.

CTA is not affected by frost and water once dried and can be used in both internal and external applications. It is suitable for use in swimming pools and in conditions subject to excessive damp, eg. bathrooms and showers, provided it is used with a moisture resistant background.

To improve adhesion and water repellent properties, use of Bond It PRIMER & ADDITIVE can be incorporated into the mix to provide a resilient finish. This is recommended when fixing large flat-backed tiles and slabs and smooth-backed, dense, fully vitrified and impervious ceramics, vitreous mosaics and porcelain. This is also recommended for fixing tiles in bathrooms and showers and for improving protection to moisture sensitive backings. Use of PRIMER & ADDITIVE will also enable tiles to be fixed to concrete or sand/cement screeds that incorporate underfloor heating.

### Preparation

The substrate must be clean, structurally sound and free from dust, oil, grease and any other contamination that may prevent adhesion. CTA can be applied to dry or moist surfaces but moisture sensitive materials must be dry and remain dry after fixing. Adhere to drying times outlined in BS5385.

◆ **Plaster Surfaces:** must be thoroughly dry and free from any plaster dust. Smooth, over-trowelled or water-flashed plaster surfaces may not be suitable for ceramic tiling - lightly brush the surface with a wire brush to remove weak surface skin. Prime the prepared plaster with Bond It PRIMER & ADDITIVE and allow to dry. Fix the tiles using the thin bed technique and they should not weigh more than 20kg/m<sup>2</sup>. Very smooth, dense and impervious

surfaces, such as existing ceramic tiles (glazed or unglazed) or terrazzo in internal locations can be primed with PRIMER & ADDITIVE prior to application of CTA.

◆ **Wooden Surfaces:** any wood based surface should be dry, sealed on their backs and edges and rigidly braced by screws at 300mm centres to provide a stable surface. Tiles can be fixed using CTA incorporating Bond It PRIMER & ADDITIVE, after priming the face of the boards with PRIMER & ADDITIVE. **NB.** Do not use on chipboard.

### Mixing

CTA should be added to clean water to the ratio of 1 part water to 3 parts powder. Continually mix the powder with a mechanical stirrer to form a soft, slump-free, easily workable mortar. Pot life of mixed material is approximately 5 hours @ 20°C. The material should be applied at temperatures above 5°C.

### Application

The mixed adhesive mortar should be applied to the substrate using a notched trowel with either 8mm notches (for floor tiles), 5mm notches (for wall tiles) or 3mm notches (for mosaics). This will produce a series of parallel ribs of adhesive into which the tiles should be firmly bedded, with a twist and slide action to ensure full contact. On deep studded tiles it will be necessary to 'butter' the back of the tile to avoid any hollow areas. Open time of the exposed mortar bed is approx. 20 minutes, dependant on conditions. Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period.

Final set will occur between 3-5 hours. Clean off surplus adhesive with a damp cloth before adhesive sets. It is important that the tiles are left undisturbed for a minimum of 5 hours after fixing at normal room temperature. Do not use at temperatures below 5°C or in conditions of extreme heat.

### Grouting

Grouting may commence after tiles are sufficiently firm to accept light foot traffic - approximately 24

hours after fixing. This will be extended in cold conditions.

### Coverage

This will vary according to the condition of the substrate, method of application and back profile of tile. However as a guide:

#### 1.3Kg of powder per mm<sup>2</sup>

Flat backed tiles & mosaics	11-13.5m <sup>2</sup> / 20Kg bag
Shallow keyed/ lightly profiled tiles	9-12m <sup>2</sup> / 20Kg bag
Deep keyed or stud back tiles	3.5-6.5m <sup>2</sup> / 20Kg bag.

### Storage Conditions

Store in original, unopened sacks, off the ground, in cool dry conditions away from excessive draughts. Use within 12 months of the date of packing shown on the bag.

### Disposal of Containers

Do not leave empty containers where residue could

be harmful to children, animals or the environment. Remove any containers to a central disposal point in accordance with local regulations.

### Health & Safety

#### Contains cement.

Risk of serious damage to eyes. Contact with wet product - or dry powder contact with body fluids, such as sweat, or eye fluid, may cause irritation, dermatitis or burns. May produce an allergic reaction.

Wear suitable protective clothing, gloves overalls and eye and face protection. After contact with skin, wash off immediately with plenty of clean water. Use a dust mask if excessive dust is unavoidable.

Keep out of reach of children.

In case of contact with eyes irrigate thoroughly with clean running water for at least 15 minutes and seek medical attention.

For further information, refer to the relevant health and safety data sheet.

## Specification Summary

Bulk Density of Powder	Approximately 1.2kg/L
Weight of Fresh Mortar	Approximately 1.7kg/L
Pot Life	Approximately 20 minutes
Initial Set	Approximately 5 hours
Full Set	Approximately 24 hours

### Container Sizes

<b>Code:</b>	BDCTA20	BDCTA10
<b>Size:</b>	20Kg	10Kg

*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.*

