

Corrobond CTA

General purpose, cementitious, tile adhesive



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Product Features

Corrobond CTA is a pre-mixed and bagged blend of cement, fine aggregates, fillers & special polymers to give a high bond strength tile adhesive for permanently fixing various types of ceramic tiles.

Corrobond CTA is non metallic, free from chlorides and provides consistent adhesion characteristics.

Complies to ANSI 118.1

Typical Uses

Corrobond CTA is typically used for the fixing of ceramic, and mosaic tiles to concrete, masonry, plastered or rendered finishes for internal or external applications.

Technical Data

Properties	Test Standards	Typical Values :
Appearance		Grey/ White powder
Water/powder ratio		: 22 - 24Å (or 5.5 - 6 litres of water per 25 kg bag)
Open time @ 2, °C		: 15 - 20 minutes
Recommended thickness		: 3 mm - 6 mm
Working time	ASTM C 308	: 60 minutes
VOC and formaldehyde		: < 1 g(Å)d
Pull off strength test	BS 1881 Part 207	: >1.0 N/mm ²
Compressive strength	BS EN 196	: > 8 N/mm ²
Flexural strength	BS EN 196	: > 2 N/mm ²
Applicable Standards	ANSI 118.1 , EN 12004	

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

Ensure concrete surfaces are clean and free from contamination such as dust, oil, grease, organic growth & release agents.

Newly rendered surfaces should be cured for at least 7 days and be finished using a wood or plastic float to achieve a slightly textured finish that will help adhesion.

Pre-soak porous substrates and tiles with clean water. Remove all standing and excess water prior to application.

Priming

Priming may not be required however if the substrate is particularly absorbent, please apply a sealer coat comprising 3

parts water and 1 part **Corrobond SBR** (see separate data sheet) to the surface.

A second sealer coat may be required if the substrate is very porous.

Dust and surface contamination must be removed prior to subsequent application of **Corrobond CTA**.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Accurately measure 5.5 - 6 litres of drinking quality water and place in a suitable empty container with sufficient volume to accommodate the mixed material.

Slowly add the **Corrobond CTA** powder to the water and mix continuously using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved. This is typically 3 – 4 minutes.

No additional water should be used as this will change the performance of the mixed material.

Application

Apply the mixed **Corrobond CTA** onto the prepared surface using a notched trowel, leaving a corrugated profile on which to bed the tiles.

Bed the tiles or boards onto the wet **Corrobond CTA** and press to compact the adhesive.

Alternatively, butter the back of the tile or board to be fixed and firmly press onto the prepared surface.

Manoeuvre the tiles to line and level within 10 minutes of application.

Expansion joints must be reflected through the **Corrobond CTA** and chosen finish, then preferably sealed with a sealant from the **Corroseal** range.

Skinned or dried **Corrobond CTA** must be removed and fresh material re-applied to ensure a good bond.

Rake out and clean the joints around the tiles immediately after fixing, to remove excess adhesive and provide a clean joint for grouting.

Tile grouting using **Corrogrout CTG** (see separate data sheet) should be carried out at least 24 hours after completion of the tiling.

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Curing

Allow **Corrobond CTA & Corrogrout CTG** to cure fully for 5 – 7 days before exposing to full environmental conditions.

Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

Corrobond CTA cannot be used on Gypsum substrates & Low absorpton tiles like vitrified/Porcelain tiles

For application in temperatures above 40°C please refer to hot weather condition recommendation

Avoid application if the work area may be subject to the onset of rain or moving water.

Corrobond ETA (see separate data sheet) should be used if the area to be tiled is exposed to chemicals.

All products should be used within the pot life. Materials not used within specified time should be discarded.

Estimating

Corrobond CTA pack size: 25 kg. Coverage rate approximately 3 - 4 kg per m²

Corrobond SBR pack size: 20 & 200 litres. Coverage rate depends on concrete porosity. Approximately 3 - 8 m² per litre of diluted solution

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrobond CTA has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.

