

Corrobond FTA

Flexible, cementitious tile adhesive



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Product Features

Corrobond FTA is a pre-mixed and bagged blend of cement, fine aggregates, fillers & special polymers to give a high bond strength, polymer modified, flexible and waterproof tile adhesive for permanently fixing various types of tiles. **Corrobond FTA** is non metallic, free from chlorides and provides consistent adhesion characteristics even in immersed conditions.

Complies to ANSI A 118.4

Typical Uses

Corrobond FTA is typically used for fixing ceramic, marble, porcelain/vitrified and mosaic tiles & insulation or acoustic boards to concrete, masonry, gypsum, plastered or rendered finishes, particularly in external and immersed conditions such as swimming pools, jacuzzis, fountains and water features.

Technical Data		
Properties	Test Standards	Typical Values
Appearance		: Grey or white powder
Open time	ASTM C308	: 20 minutes
Pot life		: approx. 1 hour
Drying time		: 24 hour
Deformability		: > 2.5 mm
Temperature resistance		: -20°C to +80°C
Pull off strength @ 28 d	BS 1881 Part 207	: >2 N/mm ² ± 0.1
Water ratio		: 22 - 24% (5.5 - 6 litres of water per 25 kg bag)
VOC & formaldehyde		: < 1 gm/ ltr
Compressive Strength	BS EN 196	: 15 N/mm ²
Flexural Strength	BS EN 196	: 3 N/mm ²
Applicable standards		ANSI 118.4, 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.

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 FTA**.

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 FTA** 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 FTA** 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 FTA** 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 FTA** and chosen finish, then preferably sealed with a sealant from the **Corroseal** range.

Skinned or dried **Corrobond FTA** 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.

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

Curing

Allow **Corrobond FTA** & **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

Substrate temperatures should be above 5°C and rising.

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 the specified time should be discarded.

Estimating

Corrobond FTA pack size: 25 kg. Coverage rate: 3.5 - 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 FTA 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.

