

Tile Adhesive Datasheet

November 2017

Page 1 of 3

A grey cement-based top quality tile adhesive for fixing ceramic tiles and mosaics. It is supplied in powder form for mixing with clean water on site. White **Tile Adhesive** is available for porcelain tiles.

Technical Data

Type	High strength tile adhesive
Colour	Grey and white
Batch mixes	Mix enough material to last for 45 minutes
Working time	3 hours
Initial set	8 to 12 hours depending on relative humidity
Grouting time	± 24 hours
Mixing water temperature	8°C to 30°C
Application temperature (ambient)	8°C to 30°C
Substrate temperature	8°C to 30°C
Aging resistance to damp	Good
Minimum application thickness	3mm after tile is bedded
Maximum application thickness	5mm after tile is bedded
Density	1.4kg/litre
Protection during application	Sun and wind barriers

Purpose

To provide an easy to use bedding for wall and floor tiles with controlled setting time, good water retention and excellent adhesion.

Benefits

- High strength
- Water and frost resistant
- Good adhesion properties
- Can be used with CreteBond where ponding is expected

Limitations

- Warm weather conditions may shorten the working time of the adhesive.
- Extremely cold temperatures may adversely affect the adhesive properties.
- Never add more liquid to an adhesive which has been left standing for too long, as this will negatively affect the adhesive properties.

Applications

- Interior and exterior floors and walls
- Low-porosity dense backgrounds
- Existing tiled surfaces
- Suspended floor surfaces
- Industrial processing areas
- Balconies
- Showers and wet areas
- Railway stations

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Tile Adhesive Datasheet

November 2017

Page 2 of 3

Site work

Storage

Unopened bags can be stored on slats in a dry cool shed away from direct sunlight for 4 months after date of invoice.

Suitable surfaces

Concrete, cement plaster, stone, bricks and blocks. Where adhesion is required to glazed tiles or firm oil paint, CreteBond should be used in conjunction with Cemcrete **Tile Adhesive**. Please contact our Technical Department.

Surface preparation

Surfaces should be hard, clean, free from grease or oil and dry at the time of tiling. Very absorbent surfaces, particularly in hot, dry conditions, can be damped down.

Screeding/plaster:

Screeds/plaster should be firmly attached to the underlying concrete/wall, and the substrate must be integrally sound (no crumbling, cracking, hollowness etc.) and of a quality and consistency suitable for tiling. All defective areas must be removed and the floor made good before applying Cemcrete **Tile Adhesive**.

Off-shutter concrete, smooth & dense surfaces, power floated & steel floated surfaces:

Clean thoroughly or mechanically abrade to remove shutter release and curing agents, laitance, polishes, etc. Very dense surfaces may require light mechanical abrasion.

Existing Tiles:

Existing tiles must be in good condition and firmly attached to the substrate, i.e. not cracked, loose or hollow sounding. Acid wash and neutralize to remove sealants, polish, etc.

Existing vinyl flooring / Carpets Floor coverings:

These must be lifted, and the floor mechanically abraded (chipping, grinding, scabbling etc.) to remove existing fixative. Existing paint or polish Domestic & commercial: Mechanically abrade (chipping, grinding, scabbling etc.) to remove all traces of paint/polish.

Bitumen adhesive / waterproofing:

Mechanically abrade (chipping, grinding, scabbling etc.) to remove all traces completely.

Mixing

Using a mechanical mixer, add 3 volumes Cemcrete **Tile Adhesive** to 1 volume water to a creamy lump-free paste consistency. Allow to stand for 5 minutes before applying.

Application

Assuming the wall surface is true, apply the **Tile Adhesive** paste with a 6mm x 6mm notched trowel. Use all mixed material within 3 hours. Depending on surface absorption and weather, do not spread **Tile Adhesive** more than 2m² to 3m² ahead of application of tiles. Bed tiles firmly using a rubber mallet. When tiling floors or exterior walls ensure that the tile is in full contact with the adhesive. Occasionally, lift a tile to ensure that there are no air pockets. Never fix tiles using the 'spot' method. Never butt joint tiles. Always leave grout joints between tiles. Leave at least 2mm wide between ceramic wall tiles, 3mm between porcelain, granite and marble tiles, and 5mm between natural stone and ceramic floor tiles. Do not tile over structural, expansion or cold joints in the background. These joints must be extended through the various layers to the surface.

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Tile Adhesive Datasheet

November 2017

Page 3 of 3

Movement/control joints

Tile panel movement/control joints should be located in both directions at maximum 4 metre centres for interior surface bed applications, and maximum 3 metre centres for suspended or exterior applications. Movement joints should also be located around the perimeter of all floors, in all horizontal and vertical corners, against obstructions fixed to the structural background and over all discontinuities in building materials, e.g. at interfaces of concrete and brickwork. In addition, movement/control joints should be located around any fixtures protruding through the tiled surface such as columns or stairs. These joints must be at least 5mm wide and extend through the tile and tile adhesive layers and must be filled with a propriety polyurethane joint sealant in accordance with the manufacturer's instructions. The full width of the structural joints must be extended through the tiles to the surface.

Grouting

Grouting can be done \pm 24 hours after the tiles have been bedded using Cemcrete's Tile Grout in accordance with the Tile Grout datasheet.

Coverage

Depends upon the suction and texture of the surface. Approximately 6m²/litre/coat.

Packaging

Available in 20kg paper bags.

Safety

Gloves, dust masks and suitable eye protection is a pre requisite to the mixing and application of Cemcrete **Tile Adhesive**.

- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 to 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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