



Tile Adhesives | Stone Chemicals

An ISO 9001-2015 CERTIFIED COMPANY

## **CASA CHEM G3** **(FLOOR & BLOCK ADHESIVE)**

### **Product Description:**

**CASA CHEM G3** is a highly polymer modified (imported from Germany) tile and block adhesive, which is especially formulated for fixing Ceramic Tiles, low porosity Vitrified tiles on floor in internal areas. The adhesive can be used in dry as well as wet areas. This can also suitable for tile-on-tile application for fixing vitrified tiles on pre-existing tile floors. It can also be used for fixing light weight blocks (AAC blocks).

### **Features & benefits:**

- High Bond strength.
- Free flowing product, makes it easier to mix and apply.
- Useful for bed thickness of 3-10 mm. May go up to 12mm in limited extent.
- Thixotropic formula - no sag, for easy application on wall.
- Low VOC – For healthy living.
- For installation of Vitrified & Ceramic tiles on floor.
- Suitable for internal use only.
- Suitable for Tile-on-tile application of vitrified tiles on pre-existing ceramic tile floors.
- Self-curing properties, this allows for no-hassle application, with

minimum labor.

- No hacking of substrate required to achieve the required bonding.

### **Compliance / Standards:**

Specially formulated as per the requirements C (Cementitious) 1 (standard) T (Slip resistant) and E (Extended open time) of ISO 13007 and EN 12004.

- EN 12004/ISO 13007: C1TE.
- Exceeds IS 15477:2019 – Type 1T Adhesive standards.

### **Area of application:**

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Existing Vitrified Tile\* & Ceramic Tile\* on wall
- Brick Masonry

\* Surface to be cleaned and roughened before installation of tiles\*



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## Method of application:

### 1. Preparing the substrate

- Clean the substrate of oil stains and bond inhibiting compounds, dirt, dust and laitance, if any, using high pressure water jet or any other suitable method.
- Ensure that the substrate is flat, stable, well adhered and has a normal absorption.
- Substrate should be cured sufficiently to avoid the shrinkage cracks.
- Correct the local undulation or any damage on the substrate at least 48 hours before the application
- Saturate the surface well and remove excess water before application

### 2. Preparing the mix

- Gradually add 3 parts of CASA CHEM G3 to 1 part of clean water (by volume) and mix it to a lump free, smooth, workable paste using a suitable stirrer / low speed drill mix / or any other appropriate tool.
- After mixing allow the mixture to stand for 2 minutes for it to mature.

### NOTE:

- Do not attempt to extend the pot life by adding more water to the mix.
- Do not add any additional substance, like cement, sand etc. to the mix. These may adversely, effect the performance of the product.

### 3. Installing the tiles

- Clean the tile with water before installation.
- Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action/shear, to ensure a good and uniform contact.

### Coverage:

Approximately 1.45 – 1.50 Kg/sq. m per mm of thickness NOTE: Ensure all surfaces are clean, smooth and plum, leveled, free of defects, and without undulations for maximum coverage.

### Packaging:

40 Kg double layered BOPP bags

### Shelf life:

1 year from month and year of manufacturing, for unopened bags, stored in dry condition.



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### Caution:

There may be irritation caused in eyes and skin in case of contact for a very long time. Please seek medical help if the problem persists for a long time. The product is recommended to be applied with gloves

### Product details:

Physical state	Powder
Colour	Grey
Bulk Density	1.45 to 1.50 gm/cc
Mix Density	1.80 to 1.85 gm/cc
Mixing Ratio (powder to water)	3 : 1 by volume
Pot life	1.5 hours
Open time	Min.20 mins
Adjustability time	20 mins
Setting/Trafficable/Grouting Time	24 hours
Ready for grouting on floor	24 hours
Adhesive Thickness	3 - 12 mm

### Disclaimer:

The user should determine the usability of the product for its intended use. Our products are manufactured under the quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation

procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.

### Technical standards and performance:

#### IS 15477:2019: TYPE 1 ADHESIVE

The Adhesive mortar conforms to IS 15477: 2019 - Type 1T Adhesive

Testing Properties	Requirement	Test Results
a) Tensile adhesion at dry condition, after 28 days	≥ 0.5 N/mm <sup>2</sup>	0.60-0.70 N/mm <sup>2</sup>
b) Shear Adhesion at Dry Condition	≥ 1.0 N/mm <sup>2</sup>	1.10-1.20 N/mm <sup>2</sup>

#### EN 12004/ISO 13007: C1TE

Testing Properties	Requirement	Test Results
a) Tensile adhesion at dry condition, after 28 days	≥ 0.5 N/mm <sup>2</sup>	0.65-0.75 N/mm <sup>2</sup>
b) Tensile Adhesion at Wet condition	≥ 0.5 N/mm <sup>2</sup>	0.65-0.75 N/mm <sup>2</sup>
c) Tensile Adhesion at Heat Ageing	≥ 0.5 N/mm <sup>2</sup>	0.65-0.75 N/mm <sup>2</sup>