



Tile Adhesives | Stone Chemicals

An ISO 9001-2015 CERTIFIED COMPANY

CASA CHEM G11 (ALL FORMAT ADHESIVE)

Product Description:

CASACHEM G11 is a highly polymer modified (*imported from Germany*), high performance thin-set adhesive for tiles, mosaics and stones, on a variety of surfaces, for both vertical and horizontal application, in indoor as well as outdoor use. It is supplied as a dry mix mortar, to which water needs to be added before application.

Features & Benefits

- Internal and external use.
- Highly polymer modified: provides high structural adhesion, which allows to be used on a variety of substrates, for fixing a variety of tiles and stones.
- Can be used for new construction, as well as for renovation over existing floors/facades.
- Prolonged and easy workability.
- Low VOC – for healthy living.
- No Hacking of substrate required to achieve the required bonding.
- Self-curing properties.
- No sag formula: allows for

hassle free application on vertical walls, without any slippage.

- Water resistant, making it suitable for swimming pools, bathrooms, kitchen, saunas, and spa.
- No shrinkage, prevents de-bonding, and gives longer life to tiles and stones.
- Absorbs dynamic load.
- Useful for bed thickness of 3-12 mm. May go up to 15mm in limited extent.

Compliance / Standards:

Specially formulated as per the requirements C (Cementitious) 2 (improved) T (Slip resistant) and E (extended open time) of ISO 13007 and EN 12004

- EN 12004/ISO 13007: C2TES1
- IS 15477:2019: TYPE 4TS1 ADHESIVE



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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

PERFECT FOR

- ✓ Swimming pool
- ✓ Industrial and heavily trafficked floor
- ✓ High polymer modified adhesive for fixing tiles and natural stone on interior and exterior floors & walls

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.
- Concrete screeds, renders and block work should be cured sufficiently to avoid the shrinkage cracks.

- Correct the local undulation/damage on the substrate at least 48 hours before the application of CASACHEM G11.
- Saturate the surface well and remove excess water before application of CASACHEM G11.

2. Preparing the mix

- Gradually add 3 parts of CASACHEM G11 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 stone/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.



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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:

20 Kg double layered BOPP bags

Shelf life:

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

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 and White
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.30 mins
Adjustability time	20 mins
Setting/ Trafficable/ Grouting Time	24 hours
Ready for grouting on floor	24 hours
Adhesive Thickness	3 - 15 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.



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Technical standards and performance:

IS 15477:2019: TYPE 4T ADHESIVE

The Adhesive mortar conforms to IS 15477: 2019 - Type 4T Adhesive

Testing Properties	Requirement	Test Results
a) Tensile adhesion at dry condition, after 28 days	≥ 1.5 N/mm ²	1.60-1.80 N/mm ²
b) Tensile Adhesion at Wet condition	≥ 1 N/mm ²	1.50-1.70 N/mm ²
c) Shear Adhesion at Dry Condition	≥ 1.5 N/mm ²	1.80-1.90 N/mm ²
d) Shear Adhesion at Wet condition	≥ 1 N/mm ²	1.30-1.50 N/mm ²
e) Shear Adhesion at Heat Ageing	≥ 1 N/mm ²	1.25-1.40 N/mm ²

EN 12004/ISO 13007: C2TES1

Testing Properties	Requirement	Test Results
a) Tensile adhesion at dry condition, after 28 days	≥ 1.0 N/mm ²	1.60-1.80 N/mm ²
b) Tensile Adhesion at Wet condition	≥ 1.0 N/mm ²	1.50-1.70 N/mm ²
c) Tensile Adhesion at Heat Ageing	≥ 1.0 N/mm ²	1.15 – 1.40 N/mm ²