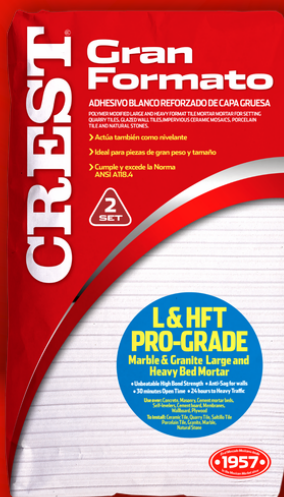


Crest Gran Formato



CREST
PREMIUM TILE SETTING SOLUTIONS



CREST GRAN FORMATO® is a polymer fortified large and heavy bed mortar formulated for the installation of large size porcelain and ceramic tile, marble, granite and natural stone. Specially designed for solving shrinkage problems. Contains a specific particle size of sand that improves the stability and enhances the slump resistance.

Meets or exceeds ANSI A118.4

Benefits

- Exceptional for large size ceramic and porcelain tile, marble and granite
- Interior and exterior applications
- Smooth and creamy consistency
- Residential and commercial use
- Non-sag features for wall applications
- Slump resistance formula for large & heavy tile or stone.
- Excellent for uneven substrates.

Suitable Tile Types

- Impervious porcelain and glass tile
- Vitreous, semi-vitreous or non-vitreous tile
- Ceramic, mosaic, quarry, cement body tile
- Natural stone tiles
- Granite and marble

Suitable Substrates

- Concrete, bricks, masonry, cement mortar beds
- Cement- Sand Surfaces
- Cement backer Units
- Cement plaster
- Properly prepared existing ceramic tiles (Interior only)
- Gypsum wallboard (Interior walls in dry areas only)

Limitations

- Install only at temperatures between 50°F and 100°F (10°C and 38°C).
- Not for use directly over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See "Suitable Substrates" section above.
- Do not soak tiles previous to installation.
- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use for installations subject to prolonged water immersion.
- Not recommended for areas subject to extreme freeze/thaw or thermal heat conditions.
- For tiles larger than 12" x 12" it is recommended to backbutter the tiles to achieve the 85% minimum coverage needed for interior applications. For wet areas, natural stone and all exterior installations a minimum 95% coverage is required.
- For the installation of special stones such as green marble or limestone, agglomerate tiles or resin-backed tiles use suitable epoxy or urethane adhesives. See respective Technical Data Sheet for more information or consult www.crest.com.mx for technical assistance.

Packaging

- 44 lb. (20 kg) Bags
- CREST GRAN FORMATO® (White)

Surface Preparation

Before preparing the mixture of CREST GRAN FORMATO® it is necessary to clean the surface, which must be structurally sound, dimensionally stable, flat and clean, free from oil, paint, sealers, wax, dirt or any other type of impurity that might prevent proper adhesion.

Concrete must be cured 28 days and accept water penetration. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a coarse finish to enhance the bond. Expansion joints should never be bridged with setting material. Do not sand flooring materials containing asbestos.

Install at room temperature, should be maintained above 50° F (10°C) or below 100°F (38°C) for 72 hours to achieve proper bond.

Surface preparation must conform to the norm ASTM D4259-88 (2012).

Use appropriate safety equipment as chemical resistant gloves when handling this product.

Mixing Procedures

Pour 4.2 to 4.6 qt. (4.0 a 4.4 lt.) of clean water into a mixing container before gradually adding 44 pounds of mortar. Mix by hand or with a slow speed (150-200 rpm) drill.

Mix thoroughly until mixture achieves a smooth, lump free paste. Let the mortar slake (stand) for 5-10 minutes. Mix again and CREST GRAN FORMATO® will be ready to use.

Once the mix has been prepared, do not add more water, otherwise the properties of the CREST GRAN FORMATO® could be adversely affected. If the material becomes rigid before applying it (approximately 1 hour), mix again without adding water to continue using it.

Product Application

Installation must conform to all aspects of ANSI A108.5.

1) Select the appropriate type and size for the notched trowel according to the type of tile and condition of the substrate in order to get the desired coverage rates.

2) Apply a layer of CREST GRAN FORMATO® to the surface with the flat side of the trowel which will anchor the mortar into the substrate.

3) With the notched side of the trowel, held at a 45° - 60° angle to the surface, combing the ridges in one direction.

Cover only the area that you can install the tile on before a dry surface layer is formed. If mortar dries out, remove it with a trowel and re-spread new mortar.

4) Place the tiles and slide them in a perpendicular motion back and forth across the ridges of the adhesive while applying downward pressure. Press the tiles until a contact area at least of 85% indoors and 95% outdoors is achieved.

5) Once the installation is finished, it will be necessary to wait 24 hours before grouting). Use JuntaCREST Ultramax® for grout joints up to 1/8" in width. For joints widths from 1/8" to 1/2" use BoquiCREST Ultramax®, All CREST Ultramax grouts provide great stability and have excellent compressive strengths which make them resistant to cracking and wear from traffic. For installations that require higher impact ratings and resistance to chemicals and stain, use EpoxyCREST 2020, 100% solids epoxy grout sanded, available in 5 colors.

In facilities that are subject to structural micro movements, thermal shock or vibration it is suggested the use of flexible joints systems, such as CREST Flexigrout®.

6) After grouting the installation is necessary to wait 24 hours before allowing foot traffic. If the temperature is below 50°F (10°C) it is suggested to wait at least 48 hours.

Open Time

The average open time of CREST GRAN FORMATO® is 50 minutes. Extreme weather conditions of temperature and relative humidity can affect the open time. The open time is affected by the ambient air, so you must verify that the CREST GRAN FORMATO® is cool to the touch before placing the tiles.

Expansion and Control Joints

It is very important to install perimeter control and movement joints throughout the field as is specified per the Tile Council of North America requirements listed under EJ 171 of the TCNA Handbook for Ceramic Tile Installations or TTMAC Specification Guide 09 30 00 Detail 301EJ. Do not cover any expansion joints with mortar.

Curing

Allow to cure for 24 hours before allowing light traffic, depending upon temperature and humidity.

Cleanup

Clean tools and tile work with water before the material hardens. Cured material must be mechanically removed.

Storage

Store in a cool dry area.

Protection

Clean your hands after using the product, avoid eye contact, or prolonged contact with the skin, if eye contact occurs, rinse with water for 15 minutes and consult a physician immediately.

Keep out of the reach of children.

IMPORTANT

We are not responsible for any loss or damage caused due to the application of this product. Prior to application, the user must confirm whether the product is suitable for their intended use. The user must assume responsibility for the risks or damages arising from an application other than specified.

Standards and Approvals

- American National Standards Institute (ANSI) – ANSI A108.1, A108.5, A118.1 and A118.4 of the American National Standards for the Installation of Ceramic Tile.
- Tile Council of North America (TCNA) - TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171
- ISO 13007-2
- ASTM D4259-88 (reapproved 2012)

Summary Technical Chart

Available:	White
Packaging:	44 lbs. Bags (20 Kg)
Pot Life:	>2 hours
Shelf Life:	18 months in a cool dry area, in original packing and unopened.
Installation Temperature:	Between 50/100°F (10/38°C)
Mixture Proportion:	4.2 to 4.6 qts. Clean water for each bag of 44 lbs
Average Open Time:	50 min.
Average Compressive Strength:	2,702 PSI (190 Kg/cm ²) at 28 days

*Values might vary depending on the tile size, leveling the substrate, conditions and method of installation.

ANSI Specification

Test Method	Requirements	Test Results
A118.4 - Shear test, glazed wall tile	>300 PSI (2.07 MPa)	360 - 430 PSI
A118.4 - Shear test, quarry tile to quarry tile	>150 PSI (1.03 MPa)	160 - 220 PSI
A118.4 - Shear test, Impervious porcelain tile	> 200 PSI (1.38 MPa)	290 - 390 PSI

Approximate Product Coverage

Suggested Trowel Size	Average Coverage
¼" x ¼" x ¼"	80 - 95 sq. ft.
¼" x 3/8" x ¼"	60 - 70 sq. ft.
½" x ½" x ½"	40 - 45 sq. ft.

Note:

Average values obtained at 73°F ± 4°F and relative humidity of 50 ± 5%. Performance may vary depending on the format and size of the trowel to use as the leveling of the substrate.

Adhesive type c

Cement-based polymer modified meet and exceeds ANSI A118.4

For walls and floors interiors and exteriors

Ceramic, quarry, Saltillo, porcelain, glass tiles, mosaics and natural stones

*Monterrey and Mexico plants Certified.

Technical Information

For technical support and assistance, please visit our website at www.crest.com.mx

For questions or comments contact technicalservice@crest.com.mx

Certifications



Crest Headquarters

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Chile Plant

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