



CREST FACHADAS® is a high strength performance mortar, specially made for vertical applications, bonding all types of porcelain, ceramic and natural stone tiles, interior and exterior, in both, residential and commercial projects.

Meets or exceeds ANSI A118.11, A118.15 requirements

Benefits

- Non-sag features for wall applications
- Excellent high shear bond
- Great flexibility on exteriors for weather changes
- Interior and exterior applications
- Smooth and creamy consistency
- Residential and commercial use
- Ideal for facades exposed to high temperatures

Suitable Tile Types

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

Suitable Substrates

- Concrete, bricks, masonry, cement mortar beds
- Cement- Sand Surfaces
- Cement backer Units (CBU's)
- Cement plaster
- Properly prepared existing ceramic tiles
- Gypsum wallboard (Interior walls in dry areas only)
- Exterior Grade Plywood (Interior residential and light commercial dry areas)

Limitations

- Install only at temperatures between 50°F and 100°F (10°C and 38°C).
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See "Suitable Substrates" section above.
- Do not bond directly to hardwood, Luan plywood, cushion or sponge-back vinyl flooring, metal, fiberglass, particle board parquet
- 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 severe freeze/thaw conditions.
- For tiles larger than 12" x 12" back buttering of the tiles may be necessary 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.

- Install perimeter control and movement joints throughout the field as per Tile Council of North America specifications listed under EJ 171 of the TCNA Handbook for Ceramic Tile Installations.
- Plywood floors, including those under resilient flooring, must be structurally sound and must meet all ANSI A108.01 Part 3.4 requirements. Maximum allowable deflection: L/360 tile L/720 Stone.
- As an alternative to an additional layer of plywood, backer board may be installed over plywood subfloors for ceramic tile installations. See TCNA F144-13 tile installations, TCNA F250-13 stone installations.

Packaging

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

Surface Preparation

Before preparing the mixture of CREST FACHADAS®, 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, it 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 the norm ASTM D4259-88 (2012), depending on the cases presented at the site of installation.

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

Mixing Procedures

Pour 4.0 to 4.2 qt. (3.8 to 4.0 lt.) of clean potable 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 3-5 minutes. Mix again and CREST FACHADAS® will be ready to use.

Once the mix is prepared, do not add more water, otherwise the properties of the CREST FACHADAS® could be adversely affected.

Product Application

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

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

2) Apply a skim coat of CREST FACHADAS® 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 45° - 60° angle of the surface, comb the ridges in one direction.

Cover only the area that you can install the tile on before a dry surface layer is formed. If the 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.

Check periodically to ensure proper coverage is being achieved and that flattened mortar is at least 3/32" to 1/8" thick. Do not exceed 1/4" of thickness. Excess mortar in joints must be removed so that at least 2/3 of joint depth is available for grouting as per ANSI A108.10.

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 strength which makes them resistant to cracking and wear from traffic. For installations that require higher impact ratings and resistance to chemicals and stains, use EpoxyCREST 2020, 100% solid epoxy sande grout, available in 5 colors.

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

6) After grouting the installation it is necessary to wait 24 hours before allowing foot traffic. If the temperature is below 50°F, wait 48 hours.

Open Time

The average open time of CREST FACHADAS® is 55 minutes. Extreme weather conditions of temperature and relative humidity can affect the open time. The open time is affected by ambient air, so you must verify that the CREST FACHADAS® is cool to the touch before placing the tiles.

Expansion and Control Joints

Provide for expansion and control joints as specified per TCNA Detail EJ171 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 A108.5, A118.4 and A118.11 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:	>2hours
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:	4.0 o 4.2 qt. Clean water for each bag of 44 lbs.
Average Open Time:	55 min.
Average Compressive Strength:	2,560 PSI (180 Kg/cm2) 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
A118.11- shear test, quarry tile to plywood	> 150 PSI (1,03 MPa)	150 - 250 PSI
A118.4 - Shear test, quarry tile to quarry tile	>150 PSI (1.03 MPa)	175 - 250 PSI
A118.15 - Shear test, glazed wall til	>450 PSI (3,10 MPa)	450 - 550 PSI
A118.15 - Shear test, Impervious porcelain tile	> 400 PSI (2,76 MPa)	450 - 550 PSI

Aproximate 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 A118.11 and ANSI 118.15

For vertical applications, 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



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Chile Plant

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