211 Crete Filler Powder

211 Crete Filler Powder is a factory prepared blend of carefully selected raw materials, portland cement and graded aggregates. Designed for use with 4237 Latex Additive to produce a high strength adhesive for ceramic tile, stone and mosaic tiles. 254 Platinum is an approved substitute for 211 Crete Filler Powder and 4237 Latex Additive (see Data Sheet DS-254 for details).

ADVANTAGES

- Premixed - no jobsite blending of powders required
- Safe - non-flammable; safe to store and mix
- Economical - saves time and money
- Easy to use - no special tools required
- High strength formula - meets and exceeds national and international standards
- Versatile - wet and dry areas, walls, floors and ceilings
- Excellent for use in swimming pools, fountains and water features.

USES

- Installation of ceramic tile, stone, agglomerate and glass mosaic over cement and masonry type surfaces.
- Interior and exterior applications
- Wet and dry areas
- Walls, floors and ceilings
- New and remodel construction
- Residential or commercial applications
- Submerged areas

MANUFACTURER

LATICRETE Middle East LLC.
P.O. Box. 86028, Ras Al Khaimah
United Arab Emirates
Telephone: + 971 7 244 6396
Fax: + 971 7 244 5915
Internet: www.laticrete.me

STANDARDS

Applicable Standards
(When mixed with 4237 Latex Additive)

- Exceeds ANSI A118.4, A118.11 and ANSI A118.15
- Conforms to EN 12004, ISO 13007 with a classification of C2TE S1.

GREENGUAD CERTIFIED

DCLD CERTIFIED

Please see the technical data

Packaging:
211 Crete Filler Powder - 20 kg bag.
Pallet: 72 bags per pallet

Colors: Grey & White

4237 Latex Additive: 20 L pail; 36 pails per pallet.

Approximate Coverage

Notch Trowel	Coverage (M^2)
6mm x 6mm	6.5 – 7.75
6mm x 9mm	5.25 – 6.5

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year** if stored off the ground on pallet in warehouse condition at 0 - 40°C , below 65% relative humidity.
**High humidity will reduce the shelf life of bagged product.

Suitable Substrates

- Concrete/Masonry
- Existing Ceramic Tile and Stone
- Concrete Block
- Cement Plaster
- Cement Beds
- Non-Water-Soluble Cut-Back Adhesive
- Cement Terrazzo
- Cement Backer Boards^ (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Gypsum Wallboard (Interior use only, non-wet areas)
- Gypsum Plaster*
- Plastic Laminate^
- STRATA_MAT™
- HYDRO BAN® Board (Consult Hydro Ban Board datasheet (for specific installation recommendations)
- Exterior Glue Plywood (Interior only) ^
- Properly Prepared Vinyl Tile (Interior only) ^

Limitations

- Use LATAPOXY® 300 Adhesive for installing green marble, water sensitive stone and agglomerate and resin backed tile and stone.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Use a white thin set mortar when installing white or light-colored stone.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- Allow concrete to cure for 28 days for the shrinkage cycle to complete. Gypsum and anhydrite screeds must be dry with max. 0.5% residual moisture.

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements)

Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Wait 14 days after the final grouting period before filing water features with water at 21°C.
- Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

TECHNICAL DATA

Certification/ Approvals

GREENGUARD: This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment

DCLD: This product has been certified for Low Emitting Materials by Dubai Central Laboratory Department (DCLD) of Dubai Municipality. No.CL20020733: 2017 Al Sa'fat Dubai Green Building Evaluation System.

This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

Performance Properties

211 Powder mixed with 4237 Latex Additive

Test Method		Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.15 7.2.5	406–508 psi (2.8–3.5 MPa)	>400 psi (2.76 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.15 7.2.4	203-363 psi (1.4-2.5 MPa)	>200 psi (1.38 MPa)
28 day Heat Aging Tile Shear Strength	ANSI A118.15 7.2.7	406-508 psi (2.8-3.5 MPa)	>400 psi (2.76 MPa)
28 day Cure Quarry Tile to Plywood Shear Bond	ANSI A118.11 4.1.2	174- 290 psi (1.2 – 2.0 MPa)	>150 psi (1.0 MPa)

Test (Curing Parameter)	Test Method	ISO 13007-1 C2 Specification	Results
Tensile Adhesive Strength (28 Day Cure)	ISO 13007-2 4.4.2	1 MPa (145 psi)	1.1 – 2.6 MPa (159 - 377 psi)
Tensile Adhesive Strength (7 Day Cure 21 Day Water Immersion)	ISO 13007-2 4.4.3	1 MPa (145 psi)	1.2 – 2.0 MPa (174 - 290 psi)
Tensile Adhesive Strength (14 Day Cure 14 Day Heat Aging)	ISO 13007-2 4.4.4	1 MPa (145 psi)	1.2 – 2.4 MPa (174 - 348 psi)
Tensile Adhesive Strength (7 Day Cure 21 Day Water Immersion then 25 Freeze/Thaw Cycles)	ISO 13007-2 4.4.5	1 MPa (145 psi)	1.2 – 2.0 MPa (174 - 290 psi)
Open Time After 30 Minutes (E-extended open time)	ISO 13007-2 4.1	0.5 MPa (73 psi)	1.0- 2.0 MPa (145 – 290 psi)
Slip (T)	ISO 13007-2 4.2	Less than or equal to 0.5 mm (0.02 inches)	< 0.5 mm (0.02 inches)
Transverse Deformation S1 (normal deformability)	ISO 13007-2 4.5	S1 (> 2.5 mm (0.1") and < 5 mm (0.2")	2.8 - 3.6 mm (0.11 - 0.14 in.)

Working Properties

211 Powder mixed with 4237 Latex Additive (25°C)

Open Time	30 minutes
Pot Life	2 hours
Foot Traffic	24 hours
Wet Density	1.60 ± 0.1 g/cm³

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATION

Surface Preparation

All surfaces should be between 4°C and 32°C and structurally sound, clean and free from all dirt, oil, grease, paint, laitance, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface.

Note: Latex Portland cement mortars do not require a minimum cure time for concrete slabs. All slabs must be plumb and true to within 6 mm in 3 m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ–171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

Mixing

Use approximately 5 Liters of 4237 Latex Additive per 20 kg of 211 Powder, Place 4237 Latex Additive in a clean plastic pail. Do not dilute. Add 211 Powder to 4237 Latex Additive and mix to a smooth, trowelable consistency. Allow mortar to slake 5–10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Application

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. It is essential that enough mortar be used to completely cover the back of the tile with a minimum 2 mm to 3 mm uniform thickness. Spread as much mortar as can be covered with tile in 15–20 minutes.

Back butter large tiles >200 mm x 200 mm to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile.

Grouting

Grout installation can occur after a minimum of 24 hours curing time at 21°C. Grout with PERMACOLOR® Grout^ or, 1500 Sanded Grout or 1600 Unsanded Grout mixed with 1776 Grout Enhancer. For maximum stain resistance use SPECTRALOCK® PRO Grout†

Cold Weather Note: The setting of Portland cement mortars and grouts are retarded by low temperatures, Protect finished work for an extended period when installing in cold weather. For faster setting mortar use 254 Platinum Rapid. Do not set tile when surface temperature is below freezing or when substrate is frozen.
Hot Weather Note: The evaporation of moisture in Portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C.

Cleaning:

Clean tools and tile work with water while mortar is fresh.

AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide.
For distributor information, please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact technical support for further information

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. LATICRETE® products are of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

TECHNICAL SERVICES

Technical assistance

For information contact us by email at: enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.