1. PRODUCT NAME
4237 Latex Additive

2. MANUFACTURER
LATICRETE International, Inc.
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Bethany CT 06524-3423 USA
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Fax: +1.203.393.1684
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3. PRODUCT DESCRIPTION
4237 Latex Additive is a specially designed latex additive for use with 211 Powder to make high strength latex thin-set bed up to 1/8" (3 mm) and medium bed up to 5/8" (15 mm) mortars. For installing all types of ceramic tile and natural stone and agglomerates. Also for use with portland cement to make slurry bond coats for mortar beds and with thin set mortars to give improved performance and longer open time.

To achieve longer open time under tropical or desert conditions, contact your local LATICRETE Technical Services office. 254 Platinum is an approved substitute for 211 Powder mixed with 4237 Latex Additive (see Data Sheet 677.0 for details).

Uses
Used for installation of all types of ceramic tile, brick, stone and agglomerates. 4237 Latex Additive offers the speed and economy of adhesives with the permanent, water resistant dependability of Portland cement. Can also be mixed with PERMACOLOR® Grout for the installation of paper face mounted glass mosaic tile for the one step method.

Advantages
- Flexible and shock resistant; rated for extra heavy traffic conditions
- Weather and frost resistant for interior and exterior use in all types of climates
- Proven performance; used in all types of applications for over 50 years
- Safe, economical and easy to use; non-hazardous, non-flammable

Suitable Substrates
- Concrete
- Brick masonry
- Concrete masonry
- Cement mortar beds
- Gypsum wallboard (interior only)
- Cement terrazzo
- Cement plaster
- Cement backer board*
- Ceramic tile and stone
* Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging
5 US gallon (18.9 l) Pail, 36 per pallet

Approximate Coverage

<table>
<thead>
<tr>
<th>Coverage</th>
<th>US Gallon (3.8 l)</th>
<th>US Gallon (3.8 l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55–65 ft² (5.1–6.1 m²)</td>
<td>1/4&quot; x 1/4&quot; (6 mm x 6 mm)</td>
<td>1/4&quot; x 3/8&quot; (6 mm x 9 mm)</td>
</tr>
</tbody>
</table>

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for five (5) years if stored indoors and off the ground at temperatures >32°F (0°C) and <110°F (43°C).

Limitations
- Use LATAPOXY® 300 Adhesive for installing green marble, water sensitive stone and agglomerates and resin backed tile or 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 natural stone.

Data Sheets are subject to change without notice. For latest revision, visit www.laticrete.com.
- 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 LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).

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 MSDS for more safety information.
- During cold weather, protect finished work from traffic until fully cured.
- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C).
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

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.

Applicable Standards
ANSI A118.4; BS5980: 1980 (Type 3, Class AA)

Performance Properties
4237 Latex Additive mixed with 211 Powder

<table>
<thead>
<tr>
<th>Test/Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Bond, Porcelain Tile, 28 day cure</td>
<td>400–600 psi (2.76–4.14 MPa)</td>
</tr>
<tr>
<td>ANSI A118.4 5.2.4</td>
<td></td>
</tr>
<tr>
<td>Shear Bond, Porcelain Tile, Water Immersion</td>
<td>320–360 psi (2.2–2.48 MPa)</td>
</tr>
<tr>
<td>ANSI A118.4 5.2.3</td>
<td></td>
</tr>
<tr>
<td>Shear Bond, Porcelain Tile, 7 day cure</td>
<td>350–370 psi (2.4–2.55 MPa)</td>
</tr>
<tr>
<td>ANSI A118.4 5.2.2</td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>&lt;4%</td>
</tr>
<tr>
<td>ANSI A118.6 6.4</td>
<td></td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>5000 psi (34.5 MPa)</td>
</tr>
<tr>
<td>ANSI A118.4 6.1</td>
<td></td>
</tr>
<tr>
<td>TCA Service Rating</td>
<td>Extra Heavy</td>
</tr>
<tr>
<td>ASTM C-627</td>
<td></td>
</tr>
<tr>
<td>Tensile Bond BS 5980:1980 Class AA; 14 days</td>
<td>1575 N (355 lbs)</td>
</tr>
<tr>
<td>Shear Adhesion BS 5980:1980 Class AA; 14 days</td>
<td>22.8 kN (5126 lbs)</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion</td>
<td>65 x 10–7 l/(°F) 117 x 10–7 l/(°C)</td>
</tr>
<tr>
<td>ASTM C-531</td>
<td></td>
</tr>
</tbody>
</table>

Working Properties
4237 Latex Additive mixed with 211 Powder at 70°F (21°C)

<table>
<thead>
<tr>
<th>Test/Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>50 minutes</td>
</tr>
<tr>
<td>Pot Life</td>
<td>5 hours</td>
</tr>
<tr>
<td>Time to Heavy Traffic</td>
<td>24 hours</td>
</tr>
<tr>
<td>Wet Density</td>
<td>102 lbs/ft^3 (1637 kg/m^3)</td>
</tr>
</tbody>
</table>

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.

5. INSTALLATION

Surface Preparation
All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Mortar. 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 1/4" (6 mm) in 10 ft (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

Stir 4237 Latex Additive thoroughly before use.

Use approximately 1 gallon (3.8 l) of 4237 Latex Additive to 35 lbs (15.9 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 for 5–10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Note: For the one-step installation of paper-face mounted glass mosaic tile, mix 3 quarts (2.9 l) of 4237 Latex Additive with 25 lbs (11.3 kg) of PERMACOLOR® Grout. See TDS 145 “Installation of Glass Mosaic Tile", available at www.laticrete.com for more information.

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 insure full bedding of the tile. It is essential that enough mortar is used to completely cover the back of the tile with a minimum 3/32" (2 mm) to 1/8" (3 mm) uniform thickness. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large tiles >8" x 8" (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 imbed 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 after a minimum of 24 hours curing time at 70°F (21°C). Grout with PERMACOLOR® Grout\^, SPECTRALOCK® PRO Premium Grout†, SPECTRALOCK PRO Grout\^, 1500 Sanded Grout or 1600 Unsanded Grout gauged with 1776 Grout Enhancer or with water.

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 Thin-Set with 101 Rapid Latex Admix. 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 95°F (35°C).

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

6. AVAILABILITY AND COST
Availability
LATICRETE® and LATAPOXY® materials are available worldwide.

For Distributor Information, Call:
Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at www.laticrete.com

Cost
Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY
See 10. FILING SYSTEM
DS 230.13: LATICRETE Product Warranty (United States and Canada)

8. MAINTENANCE
LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES
Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline:
Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
Fax: +1.203.393.1948

Technical and Safety Literature
To acquire technical and safety literature, please visit our website at www.laticrete.com.