POLYBLEND® NON-SANDED GROUT

1. **Product Name**
   Polyblend® Non-Sanded Grout

2. **Manufacturer**
   Custom Building Products
   13001 Seal Beach Blvd.
   Seal Beach, CA 90740-2757
   800- 272-8786
   562-598-8808
   Fax: 800-200-7765
   Email: contactus@cbpmail.net
   www.custombuildingproducts.com

3. **Product Description**
   Polyblend Non-Sanded Grout is a polymer-modified grout designed for highly glazed or polished tile, marble and natural stone that would be scratched by sanded grouts. This durable, non-shrinking grout accommodates joints to 1/8" (3 mm) and can be used for interior or exterior installations, including floors, countertops, walls, ceilings, showers, fountains and pools.
   Polyblend Non-Sanded Grout can be used with the following tile types:
   - Vitreous, semi-vitreous or non-vitreous tile: ceramic, mosaic, quarry, cement body tiles
   - Impervious porcelain and glass tile
   - Brick and thin brick
   - Precast terrazzo
   - Natural stone tile

   **COMPOSITION & MATERIALS**
   Polyblend Non-Sanded Grout is a dry, Portland cement based grout, inorganic aggregates and chemicals.

   **SIZES**
   - Available in 2 sizes:
     10 lb. (4.5 kg) bag
     25 lb (11.34) bag
   - Available in 48 standard colors; color matching is available. View color selections at the www.custombuildingproducts.com website.

   **BENEFITS**
   - Consistent color
   - Excellent for highly glazed ceramic tile and highly polished marble or natural stone
   - Resists shrinking, cracking, powdering and wear
   - Exceeds ANSI A118.6 standards
   - Rated for residential to extra heavy commercial use

   **LIMITATIONS**
   - Polyblend Non-Sanded Grout should not be installed when ambient temperature is lower than 50° F (10°C) or higher than 100° F (38°C).
   - Polyblend Non-Sanded Grout is appropriate for tile that may be damaged by sanded grout. Some ceramic tile, marble or stone can be scratched, stained or damaged by sanded or pigmented grout. Test a small area prior to use.
   - Tile with high absorption, surface porosity or rough, textured surfaces and certain types of porcelain may require sealing prior to grouting to prevent staining. Use TileLab® SurfaceGard® Stone, Grout & Tile Sealer to prevent grout staining, when required.
   - Color variation can occur due to tile type, tile porosity, jobsite conditions, application and cleaning techniques. Variation can be minimized by following directions and using as little water as possible for cleanup.
   - Chemicals in salt based pool filtration systems can cause a reaction with blue, green and red grouts. Contact Technical Services for recommendations.

4. **Technical Data**

   **APPLICABLE STANDARDS**
   ASTM International (ASTM)
   - ASTM C531 Standard Test Method for Linear Shrinkage
   - Tile Council of North America (TCNA) — TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171
APPROVALS
Polyblend Non-Sanded Grout meets or exceeds ANSI A118.6 standards.

TECHNICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI standard</td>
<td>A118.6</td>
</tr>
<tr>
<td>Pot life</td>
<td>1 – 2 hours</td>
</tr>
<tr>
<td>Initial set</td>
<td>5 hours</td>
</tr>
<tr>
<td>Final set</td>
<td>6 hours</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>&lt;0.10%</td>
</tr>
<tr>
<td>Water absorption</td>
<td></td>
</tr>
<tr>
<td>After immersion</td>
<td>16%</td>
</tr>
<tr>
<td>After drying</td>
<td>19%</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>3300 psi (232 kg/cm²)</td>
</tr>
<tr>
<td>7 days</td>
<td>315 psi (22.2 kg/cm²)</td>
</tr>
<tr>
<td>28 days</td>
<td>525 psi (36.9 kg/cm²)</td>
</tr>
<tr>
<td>Flexural strength</td>
<td></td>
</tr>
<tr>
<td>7 days</td>
<td>&gt;790 psi (&gt;55.6 kg/cm²)</td>
</tr>
<tr>
<td>Thermal shock</td>
<td>Pass</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL CONSIDERATIONS
Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

Use of Polyblend Non-Sanded Grout can contribute to LEED® certification.

5. Installation

PREPARATORY WORK
Tile or stone must be firmly bonded to a sound substrate, and setting material must be cured a minimum 24 – 48 hours before grouting, unless rapid setting mortars are used. See the corresponding data for the rapid setting bonding mortars used in your application. Remove spacers and ensure that the grout joints are uniform in depth and width and free of loose debris, contaminants and excess mortar. Use TileLab SurfaceGard Stone, Grout & Tile Sealer to seal tile or stone subject to staining.

Mix materials per the following guidelines:
Mix 3 pt (1.4 L) clean water to 10 lb (4.5 kg) grout.
Mix with a trowel or low speed mixer (less than 300 rpm) to achieve a smooth, lump-free consistency. Let the mixture stand (slake) for 10 minutes, and then remix and use. Periodically remix to keep the mixture workable, but do not add water, which can weaken the joint, cause color variation and possible cause shrinkage, cracks and pinholes. Discard grout when it becomes too stiff to work.

METHODS
Application
Installation must confirm to ANSI A108.10. Lightly dampen absorptive, highly porous tile with clean, cool water, but leave no standing water in the joints. Holding a rubber grout float at a 45° angle, completely fill the joints. Holding the edge of the float at a 90° angle, remove excess grout. Do not spread more grout than can be cleaned within 30 minutes of the grout firming and use as little water as possible for grout cleanup.

Using a damp, small pore grout sponge in a circular motion, smooth and level joints and remove excess grout. Change the water and rinse the sponge frequently. Haze can be removed after 3 hours with cheesecloth or wrung-out sponge.

Curing
Curing time is affected by ambient and surface temperatures and humidity. Use the following as a guideline.
- Periodically misting the installation with clean, cool water for 3 days is recommended.

Cleaning
Clean tools and hands with water before the material dries.

PRECAUTIONS
This product contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Use with adequate ventilation; do not breathe dust and wear a NIOSH approved respirator. If ingested, do not induce vomiting; call a physician immediately.

BUILDING CODES
Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.
6. Availability & Cost
Contact the manufacturer or visit the [www.custombuildingproducts.com](http://www.custombuildingproducts.com) website for information about product cost and availability.

7. Warranty
This product is eligible for Custom Building Products Lifetime Installations Systems Warranty.

Custom Building Products ("Custom") warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom’s sole liability under this warranty shall be limited to the replacement of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom’s printed instructions. Custom makes no other warranties either express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

For details and complete warranty information, contact Custom Building Products or visit the Custom Building Products website: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).

8. Maintenance
To extend the life of Polyblend Non-Sanded Grout, use TileLab SurfaceGard Stone, Grout & Tile Sealer. Do not use acidic cleaners on Polyblend Grouts as long term damage may occur. The use of pH neutral cleaners is recommended.

9. Technical Services
For technical assistance, contact Custom Building Products or visit the website: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).

10. Filing Systems
Additional product information is available from the manufacturer upon request.

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### Coverage
Coverage will vary depending on the tile size and joint width

<table>
<thead>
<tr>
<th>Square foot coverage per 10 lb. box</th>
<th>Joint Width</th>
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</thead>
<tbody>
<tr>
<td>Tile size</td>
<td>1/16&quot; (1.6 mm)</td>
</tr>
<tr>
<td>1&quot; x 1&quot; x 1/4&quot; (25 x 25 x 6 mm)</td>
<td>44 (4.1)</td>
</tr>
<tr>
<td>2&quot; x 2&quot; x 1/4&quot; (50 x 50 x 6 mm)</td>
<td>85 (7.9)</td>
</tr>
<tr>
<td>3&quot; x 3&quot; x 1/4&quot; (75 x 75 x 6 mm)</td>
<td>126 (11.7)</td>
</tr>
<tr>
<td>4 1/4&quot; x 4 1/4&quot; x 1/4&quot; (108 x 108 x 6 mm)</td>
<td>149 (13.8)</td>
</tr>
<tr>
<td>6&quot; x 6&quot; x 1/4&quot; (150 x 150 x 6 mm)</td>
<td>250 (23.2)</td>
</tr>
<tr>
<td>8&quot; x 8&quot; x 3/8&quot; (200 x 200 x 9.5 mm)</td>
<td>220 (20.4)</td>
</tr>
<tr>
<td>12&quot; x 12&quot; x 3/8&quot; (300 x 300 x 9.5 mm)</td>
<td>331 (30.1)</td>
</tr>
<tr>
<td>16&quot; x 16&quot; x 3/8&quot; (400 x 400 x 9.5 mm)</td>
<td>370 (34.4)</td>
</tr>
<tr>
<td>20&quot; x 20&quot; x 3/8&quot; (500 x 500 x 9.5 mm)</td>
<td>453 (42.1)</td>
</tr>
<tr>
<td>24&quot; x 24&quot; x 3/8&quot; (600 x 600 x 9.5 mm)</td>
<td>659 (61.2)</td>
</tr>
</tbody>
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