# MAPEPROOF™ GRANULES
## BENTONITE GRANULES FOR DETAILING WITH MAPEPROOF HW OR MAPEPROOF SW

## PRODUCT DESCRIPTION

Mapeproof Granules are composed of sodium bentonite clay. In the presence of moisture, the sodium bentonite hydrates and swells forming a monolithic waterproofing membrane. Ideal for cost sensitive horizontal slabs and vertical blindside applications.

## FEATURES AND BENEFITS

- High swelling index helps lock out moisture
- Can be installed over damp or green concrete
- Self-healing if punctured
- Not affected by rises and falls in the water table
- Suitable for vertical applications
- 0 VOCs

## TECHNICAL DESCRIPTION

| Property | Test Method | Typical Result |
|---|---|---|
| Mass per unit area, bentonite at 12% moisture | ASTM D5993 | 1.13 lbs. per ft$^2$ (5.5 kg per m$^2$) |
| Mass per unit area, bentonite at 0% moisture | ASTM D5993 | 1 lb. per ft$^2$ (4.9 kg per m$^2$) |
| Swell index | ASTM D5890 | > 27 mL per 2 g |

## STORAGE AND SHELF LIFE

60 month shelf-life if stored in its original packaging in a dry environment at a temperature between 40°F and 90°F (4°C and 32°C). Prevent hydration of bentonite until the sheet is installed and under recommended compaction.

## SUITABLE SUBSTRATES AND SURFACE PREPARATION

- Before installation of Mapeproof HW, the substrate must be properly prepared.
- *Underslab:* Substrates may be concrete, earth, sand, pea gravel or crushed stone. Earth and sand substrates should be compacted to a minimum 85% Modified Proctor density and covered with Mapedrain™ panels. Crushed stone should be compacted, smooth and not larger than ¾" (19 mm). Concrete should be solid and smooth without ridges, sharp corners or honeycombing. Any voids and aggregate pockets exceeding 1" (2.5 cm) in diameter or a depth greater than ¾" (19 mm) should be filled with a nonshrink cement-based grout. Complete all required work on elevator pits, sump pits, grade beams and pilings before installing Mapeproof HW under a main slab area.
- *Vertical:* Substrates may be concrete, shotcrete, wood lagging, steel sheet piling or secant piles. Substrates should be smooth and uniform without sharp protrusions or pockets. Fill tie-rod holes, honeycombs and voids with a nonshrinking cement-based grout to provide a smooth surface. Grind form fins, ridges and sharp corners, and remove excess concrete.
- *Wall lagging:* Install Mapedrain panels over wood lagging. Mapedrain panels can be installed over wood lagging gaps up to 2½" (6.3 cm) to provide a uniform surface for Mapeproof HW. Gaps larger than 2½" (6.3 cm) should be completely filled with cement-based grout, wood or extruded polystyrene (at a minimum of 40 psi [0.28 MPa]) even if Mapedrain panels are installed before Mapeproof HW. Do not use plywood or other surface treatment that leaves voids in the lagging gaps.

## PRODUCT DATA

Pails......................6.34 U.S. gals (24 L)
Gross Weight................ 35 lbs (15.9 kg)
Net Weight................... 33.1 lbs (15 kg)

## WHERE TO USE

- Footing and wall junctions
- Pile heads and caps
- Details such as: inside corners, outside corners, and penetrations

## PRODUCT CODES

- MPGR33

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**Product Disclaimer:**

For professional use only.

Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 1 year. Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data, detail drawings and warranty information, visit www.polyglass.us

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