

CARMELO ECO GROUT™ S (Lechada con arena S)

Premium Sanded Tile Grout with Polymers



Product Description: ECO-GROUT S is a high-quality, polymer-modified sanded, Portland cement-based grout requiring only the addition of water. This grout can be used on floors, walls, countertops, ceilings, showers, and for submerged areas in spas and swimming pools after being cured.

Advantages: Our Eco Grout S has low water absorption, is easy to clean, highly resistant to abrasion, resistant to UV rays, and comes in a one-pack product.

Industry Standards and Approvals: Our product meets and exceeds industry standard ANSI A118.6 requirements ISO GC2WA.

Usage and Application:

Uses: The product is ideal for grouting all types of ceramic tiles for both interiors and exteriors in wet and dry conditions. It can also be used for grouting natural stone, slate, granite, and stone agglomerates and for joint widths from 1/8" to 3/4" (3 - 19 mm).

Surface Preparation: Prior to applying the grout, the tile must be firmly attached to a sound substrate with all spacers, pegs and strings removed. Cure the adhesive mortar for a minimum of 24 - 48 hours before grouting. Grout joints should be uniform in depth and width, and free of dust, dirt, foreign matter, excess mortar, and pooled water.

Mixing Ratio:

- 0.5-Gal (1.9 L) of water per 25 lbs. (11.34 kg) bag
- 0.80 Quarts of water (3/4 L) per 10 lbs bag

Mixing Instructions:

- 1 Mix ratio provided above with a mortar/grout paddle mixer at a low speed of approximately 500 rpm until achieving a lump free, paste-like, non-pourable consistency.

- 2 Do not use any additive.
- 3 If needed, add up to one pint (473 ml) of water at a time for a 25 lbs. bag to adjust the mix's consistency. For a 10 lbs bag, add up to 150 ml of water.
- 4 Let stand 10 minutes, re-mix before use.
- 5 Discard grout when too stiff to work, about 2 hours.

Installation / Curing:

- 1 Follow procedures stated in ANSI A108.10 "Installation of Grout in Tilework".
- 2 Lightly dampen the highly porous tile with clean water and leave no water in the joints.
- 3 Holding a rubber grout float at 45° angle, force ECO GROUT S into the joints ensuring joints is filled.
- 4 While the grout is still fresh, remove excess grout from the tile surface using an edge float held at 90° angle.
- 5 If the grout begins to stiffen before all the material is used, simply remix, but do not add any water.
- 6 The grout surface should be flush with the tile edge.
- 7 Change the water in the buckets frequently to limit the amount of white mineral dust (or haze) from forming on the tile or stone surface.

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8 External factors may affect the color of the grout, these include varying joint widths and depth, quantity and quality of mixing and cleanup water, temperature, humidity, and cleaning procedures. Since these external factors are beyond our control, we cannot guarantee a consistent shading of the grout.

Hydrophobic Properties: Our ECO-GROUT S contains special polymers to give the grout excellent hydrophobic properties which provide high resistance to mold and mildew growth. Sealing the grout is a good practice, but not mandatory.

Clean Up: Wash tools immediately after completing the project. Use as little water as possible because excess water will weaken the joint and cause variations in color, efflorescence, shrinkage, cracks, or pinholes. Clean with water and a sponge for better color uniformity. Do not use acid for cleaning glazed tile, marble, or colored grout. To clean tiled surfaces, use a neutral-pH cleaner followed by rinsing with clean water. Prior to the cleaning, consult the cleaner’s manufacturer for compatibility, use and application instructions. Do not use aggressive chemicals or no-rinse cleaners to maintain or clean the tile or stone surface.

Storage: Store up to one year in a dry place with moderate temperature, making sure that it’s protected against water or other external agents.

Protection of Work Area:

- 1 Wait 2 hours before removing any haze from the tile surface with a dry cloth.
- 2 Keep floors free from heavy traffic for at least 72 hours after placing the grout.
- 3 Protect walls from vibration and hammering occurring on adjacent and opposite walls for 14 days after the installation of tiles.
- 4 Cure for a minimum of 21 days before normal cleaning.

Environmental Considerations:

The product is environmentally friendly due to it containing regional materials from Puerto Rico.

Warranty: Ecológica Carmelo warrants this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the purpose for which it is intended.

Health & Safety Precautions: This product contains Portland cement. Always use safety goggles and rubber gloves when using this product, since contact with freshly mixed cement can cause severe burns. Avoid direct contact with skin and eyes. If this product does come in contact with the eyes, immediately flush with water for at least 15 minutes and consult a physician. For skin exposure, wash promptly with plenty of soap and water. If needed, consult a physician.

Technical Data:

Product Details			
Product Code:	Physical State:	Size + Packaging:	Colors:
LEHCABONE, LEHCABONE10 LEHCABROWN, LEHCABROWN10 LEHCABLANCA, LEHCABLANCA10 LEHCACHAMP, LEHCACHAMP10 LEHCAGRAY, LEHCAGRAY10 LEHCASILVERGRAY, LEHCASILVERGRAY 10 LEHCATAN, LEHCATAN10 LEHCATERR, LEHCATERR10 LECHSAVAN, LECHSAVAN10 LEHCACHARGRAY, LEHCACHARGRAY10	Dry Powder	25 lbs bag 10 lbs bag	Bone Brown White Champagne Gray Silver gray Tan Terracotta Vanilla Charcoal Gray

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Yield or Coverage - Approximate Coverage per bag in Linear Feet (LF)

25 lbs - 100 LF
10 lbs - 40 LF

Note: To determine the approximate coverage to a 10 lbs bag, just divide the 25 lbs coverage by 2.5.

Approximate Coverages for 25 lb. (11,3 kg) bag. Coverage in ft² (m²)

Tile size	Grout Joint Width					
	1/8" (3 mm)	3/16" (4,5 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)	5/8" (16 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	51 (4,78)	36 (3,35)	28 (2,60)	20 (1,86)	16 (1,49)	14 (1,30)
2" x 2" x 1/4" (50 x 50 x 6 mm)	98 (9,14)	67 (6,23)	51 (4,74)	36 (3,35)	28 (2,60)	23 (2,14)
3" x 3" x 1/4" (75 x 75 x 6 mm)	145 (13,5)	98 (9,11)	75 (6,97)	51 (4,74)	40 (3,72)	33 (3,07)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	204 (19,0)	137 (12,7)	104 (9,67)	71 (6,60)	54 (5,02)	44 (4,09)
4" x 8" x 1/2" (100 x 200 x 12 mm)	135 (12,5)	91 (8,46)	69 (6,41)	47 (4,37)	36 (3,35)	29 (2,70)
6" x 6" x 1/4" (150 x 150 x 6 mm)	286 (26,6)	192 (17,8)	145 (13,5)	98 (9,11)	75 (6,97)	61 (5,67)
6" x 6" x 1/2" (150 x 150 x 12 mm)	151 (14,1)	102 (9,48)	77 (7,16)	52 (4,83)	40 (3,72)	32 (2,97)
8" x 8" x 3/8" (200 x 200 x 10 mm)	263 (24,4)	176 (16,4)	133 (12,4)	90 (8,37)	68 (6,32)	55 (5,11)
12" x 12" x 3/8" (300 x 300 x 10 mm)	393 (36,5)	263 (24,4)	198 (18,4)	133 (12,4)	101 (9,39)	81 (7,53)
13" x 13" x 3/8" (330 x 330 x 10 mm)	425 (39,5)	285 (26,5)	214 (19,9)	144 (13,4)	109 (10,1)	88 (8,18)
16" x 16" x 3/8" (406 x 406 x 10 mm)	523 (48,6)	350 (32,5)	263 (24,4)	176 (16,4)	133 (12,4)	107 (9,95)
18" x 18" x 3/8" (457 x 457 x 10 mm)	588 (54,7)	393 (36,5)	295 (27,4)	198 (18,4)	149 (13,8)	120 (11,2)
20" x 20" x 3/8" (508 x 508 x 10 mm)	653 (60,7)	436 (40,5)	328 (30,5)	220 (20,4)	166 (15,4)	133 (12,4)
24" x 24" x 3/8" (610 x 610 x 10 mm)	783 (72,8)	523 (48,6)	393 (36,5)	263 (24,4)	198 (18,4)	159 (14,8)

Compressive Strength at 28 days:	Water Absorption	Bucket Life at 73°F / 23°C	Density
3,800 psi	Less than 8%	1-2 hours	122 lbs/ft ³

Shelf Life + Application Properties

Shelf Life	1 year in the original bag when kept in a dry covered place
Initial Setting Time at 72°F / 22°C	3 Hours
Final Setting Time at 72°F / 22°C	5 Hours
ASTM C1583 (Pull-off method)	150 PSI

CARMELO

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