



MATRIX COLLECTION

Creative colour
Ceramic wall tiles and detailing

PRODUCT DESCRIPTION

Matrix Collection grout is an advanced high-performance specialist cement grout that offers a unique dispensable dry pigment solution. Matrix Collection grout offers optimum performance and is easy to mix, grout and clean. Matrix Collection grout is fast setting, cures to a stable, efflorescence free colour and is suitable for joints 2mm – 20mm wide on floors or walls.

Advantages

- Equipped with STONETECH® Sealer Technology
- Vibrant consistent colour – minimizes efflorescence
- Reinforced with Kevlar fibre® – crack & shrink resistant
- Fast setting – ready for foot traffic in as little as 3 hours
- Equipped with Anti-Microbial protection
- Cures to a mould resistant & efflorescence free mortar joint
- Matrix grout colour sachet – Available in 23 colours
- Complies with EN 13888 (CG2WA)



PRODUCT DESCRIPTION

Matrix Collection grout is a high-performance wall & floor grouting system with built-in polymer & water-repellent reinforcements within a Portland cement-free binder system. Anti-fungal additives guarantee a high strength, colour-stable tile joint, with the unique benefit of having a wide selection of colour additives to choose from designed to match the Matrix Collection.

PRECAUTIONS

Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Consult MSDS for more safety information. Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas. Grout may stain semi-porous tile & stone especially when strong colours are selected. Always conduct a test area to verify results. Job site conditions will affect the final colour of coloured grouts. Try a small test area to determine your results before grouting the entire installation. Certain types of tile are more absorbent than others and will trap colour pigment during grouting. Prior to grouting, test for absorption of colour pigment. Porous tiles will need to be sealed prior to grouting.

Note: Surfaces must be structurally sound, stable and rigid enough to support tile or stone, 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 tile/brick installations or L/480 for thin bed stone installations where L=span length.

Limitations

Adhesives, mortars and grouts for tile and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a Laticrete Hydroban Waterproofing Membrane. DO NOT use acid to clean coloured grout joints. In submerged applications or steam rooms allow Matrix Collection grout to cure for 14 days at 70°F (21°C) prior to filling with water or exposing to steam

SURFACE PREPARATION

Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Check that the tiled area is securely fixed and the adhesive has thoroughly cured before applying any load or pressure to the surface. Ensure all joints are raked clear of any excess adhesive residues to allow an even and consistent depth of grout to be applied. Substrate temperature must be between 7°C and 32°C.

Matrix Collection grout is based on naturally derived mineral fillers and hydraulic binders, hence there will always be some degree of minor colour variation within the base grout blend. To ensure that the specified colour is achieved with every mix, it is important to accurately maintain both the same batch of product and the source & quantity of clean cold water from mix to mix, especially when grouting over larger areas and similarly the degree & duration of mechanical agitation applied with each mix must be consistent & comparable to ensure that a wholly consistent colour dispersion is achieved within the smooth grout paste. Lighting conditions during the installation of tile fixing and grouting should not be 'appreciably different' from the final room lighting arrangements and the grout colour should always be pre-checked under the intended room lighting conditions.

MIXING

Use approximately 500ml of clean potable water for every 2.5 kg bag of Matrix Collection part 1 base grout when combined with Matrix Collection part 2 grout colour sachet. [Note stronger colours may require a slightly higher water addition to give optimum application consistency]. Place water in a clean mixing container and remove part 2 grout colour sachet from the cardboard container as well as the outer protective plastic sleeve sachet. The internal sachet is a water-soluble pack to be placed directly into the water in a clean mixing container and mix with a mechanically powered drill mixer (at 300rpm) until pigment is dispersed evenly in container and the soluble pack is no longer visible.



MATRIX COLLECTION

Creative colour
Ceramic wall tiles and detailing

Add 2.5 kg bag of Matrix Collection part 1 base and (at 300 rpm) mix for 1 minute. Wait for 5 minutes and remix with drill for 1 minute until a smooth, lump-free, colour consistent paste is visible. Do not add more water than is necessary as this may prolong drying, affect the finished colour shade and significantly reduce the compressive strength of the cured grout. Part-used grout should never be "freshened up" with later water additions but should always be discarded once it appears to lose workability. In ideal conditions (20°C), fast-setting Matrix Collection grout will remain readily workable for up to 1 hour and then reach final set after 90 to 120 minutes. When grouting over a large area using several bags of grout, ensure all mixes are from the same batch and that a consistent and identical water addition is used for each mix.

APPLICATION

Clean tile surface with a damp sponge. Spread with a sharp, firm rubber grout float or wall float for narrow wall joints. To remove excess grout, hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints to avoid pulling out the material. Use a rubber squeegee, or smooth sponge to work the grout thoroughly and consistently into the tile joints, removing the excess as work proceeds across the tiled area. Fine grout residues should be washed away with a damp (not soaked) cloth or sponge within 20 minutes of initial application, with a final clean finish being achieved using a semi-dry cloth to polish the surface when the joints have dried and hardened 1 hour later when any grout haze can be polished off the tile face. Always ensure sponges & cloths are clean and free from any contamination and that no excess water remains on the recently wiped surface.

Note: If the grout begins to stiffen during installation, remix with drill mixer for 10–15 seconds. DO NOT ADD MORE WATER. Due to its' fast setting & polymer fortified properties, Matrix Collection grout will be more difficult to remove from the tiled surfaces than standard wall or floor grout when dry therefore extra care is necessary to ensure residues are completely removed as the application proceeds before the grout begins to set. If completing a shower or wet-room area, do not use for at least 2 weeks (BS 5385: Part 4:2014, clause 7.2.1).

COVERAGE

Depends on the tile size, joint width and depth and the Grout Coverage Factor, which Matrix Collection grout is 1.9. The approximate grout requirements for square or rectangular tiles can be estimated as follows:

$$\frac{(\text{Tile length} + \text{Tile width}) \times \text{Joint width} \times \text{Joint depth} \times 1.9}{(\text{Tile length} \times \text{Tile width})}$$

Joint Width	Tile Size (mm)	Coverage (kg)
6mm	150 x 200 x 6	0.67 kg/m ²
6mm	200 x 250 x 10	0.86 kg/m ²
8mm	100 x 100 x 8	2.00 kg/m ²
8mm	150 x 150 x 6	1.00 kg/m ²

STORAGE

Matrix Collection part 1 base grout is supplied in 2.5kg moisture resistant air-tight sachets and has a storage life of 24 months if stored in dry, un-opened conditions. The Matrix Collection part 2 grout colour sachet is supplied as water-soluble sachets within a protective water-resistant outer pouch packed within a cardboard container to give a shelf-life of 3 years if unopened. All product should be kept in cool sealed conditions away from any exposure to damp, direct sunlight & elevated temperatures.

TECHNICAL DATA

Physical properties:

Tensile Strength	3.5 N/mm ²
Compressive Strength	31.0 N/mm ²
Flexural Strength	8.1 N/mm ²
Linear Shrinkage	< 0.10%

Working properties:

Pot Life	45 – 60 mins @ 21°C
Final Set	3 – 4 hours
Takes heavy foot traffic after:	6 hours

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.

Performance test results:

Test	EN1388 CG2WA spec'n	Results:
28-day abrasion resistance	< 1000 mm ³	121 – 132 mm ³
28-day flexural strength	>2.5 N/mm ²	8.5 – 9.2 N/mm ²
Freeze Thaw flexural strength	>2.5 N/mm ²	3.3 – 3.8 N/mm ²
28-day compressive strength	>15 N/mm ²	35 – 37 N/mm ²
Freeze Thaw Compressive strength	>15 N/mm ²	30 – 31 N/mm ²
28-day Cure Shrinkage	< 3 mm / metre	0.5 – 0.6 mm/m
28-day cure – 30 mins water absorption	< 2 g	0.09 – 0.14 g
28-day cure – 240 mins water absorption	< 5 g	0.54 – 0.70 g

PACKAGING

Matrix Collection part 1 base grout 2.5kg (X6 per outer case). With 23 Matrix Collection part 2 grout colour sachets (X6 per outer case). For use as 1 dye sachet per 2.5kg of Matrix Collection part 1 base grout.

SHELF LIFE

Factory sealed containers of this product are guaranteed for the time period listed below if stored off the ground in a dry area.

Matrix Collection part 1 base grout 2.5kg – 2 years
Matrix Collection part 2 grout colour sachets- 3 years



MATRIX COLLECTION

Creative colour
Ceramic wall tiles and detailing

MAINTENANCE

All grouts require routine cleaning with a neutral PH soap and water. Contact the cleaner manufacturer if another cleaner type will be used to ensure compatibility with the grout. Routine maintenance can be done with detergents and a sponge or mop. For hardened residues or difficult to remove soils, a proprietary grout film remover applied with a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: prior to using any cleaning material on a tile, etc. Installation, test a discrete area or scrap piece of tile to insure desired results.

DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate. The use & application of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with Laticrete guidelines. The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.



MATRIX COLLECTION GROUT COLOUR RANGE:

The below colour swatches are for guideline purpose only and should not be taken as a precise match to the final colour shade in the mixed grout.



Red grout



Blossom Pink grout



Southbank Teal grout



Urban Grey grout



Victoria Purple grout



Orange grout



Primrose Yellow grout



Black grout



Silver grout



Heritage Blue grout



Mustard grout



Spring Mint grout



Deep Pewter grout



Bone grout



Burnt Amber grout



Green grout



Sky Blue grout



Brooklyn Stone grout



Antique White grout



Blue grout



Wilderness Green grout



Steel grout



Diamond White grout

PERMACOLOR® SELECT

