

MasterTile[®] 100

3 component high performance epoxy tile grout

DESCRIPTION

Epoxy resin-based tile grouting system for pavers, ceramic tiles, stone tiles, mosaics and acid resistant tiles in medium and heavy-duty corrosive and hygienic environments. **MasterTile 100** is available in selective twelve shades.

RECOMMENDED USES

- Joints in Vitrified, Ceramic, mosaic tiles
- Stain free finish for any kind of natural stone
- Indoor and outdoor use
- Swimming pools and leisure facilities
- Showers, Artificial water bodies and hot springs
 - Heavy duty workshops, garages and services facilities
- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Sewerage plant & sewer lines.

FEATURES AND BENEFITS

Excellent resistance to most aqueous systems including sewerage, urine, saltwater, dilute acid and alkali, oils and fats

Stain free finish – Excellent resistance to stain

Non-absorbent easy to clean and hygienic in service

Crack-free and non-shrink- curing and setting without shrinkage and very high adhesion to tiles and substrate.

Resistant to frost and weathering - multi-purpose use indoors and outdoors.

Good Workability - easy to apply.

Non-Sag Consistency - Suitable for vertical and horizontal application

Coloured -Available in range of 12 colour shades.

PROPERTIES

Chemical Resistance

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, alkalis, oil and fats.

Typical Properties

Mixed Consistency	: paste
Mixed density	: 1.71 gm/cc
Mixing Ratio by weight in kg	: 0.530 (B):0.320(H): 2.150(F)
Pot life	: 70 Minutes at 25°C
	: 30 Minutes at 40°C

Volume solids	100 %
Setting Time (IS 4031 Part 5 : 1988)	Initial Setting Time – 300 min Final Setting Time – 360 min
Cure Shrinkage (ISO 13007:44.3)	0.01 (28 Days)
Flexural Strength (ASTM C 580)	>25 Mpa
Compressive strength (EN 12808-3)	>45 N/mm2
Flexural strength (EN 12808-3)	>30 N/mm2
Shrinkage at 24 hrs (EN 12808-4)	<1.5mm/m
Water Absorption (EN 12808-5)	<0.1 g
Abrasion Resistance (EN 12808-2)	<250 mm3
Tensile strength (BS:6319 part 3)	> 9 MPa at 7 days
Adhesive bond strength to concrete (ASTM D4541)	> 1.5 MPa at 7 days
Water cleanability	: up to 90 min at 25°C

APPLICATION

Surface preparation

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully hardens. Ensure all laitance and contaminants are removed.

Prior to application, **MasterTile 100** pack should be stored under cover and protected from extreme temperature which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, MasterTile 100 systems should be maintained at approximately 20°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

Mixing

MasterTile 100 is paste consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour hardener (Part B) & base (Part A) in bucket and mix for 30 seconds. Then, slowly add Pigmented Filler (Part C) for approximately 2 minutes or until a uniform consistency and colour is obtained.

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Grouting

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully cured. Apply the epoxy grout to the joints by rubber spatula. 45-60 minutes after the grouting operation, use a scrub pad to remove surplus material from the face of the tiles before it sets & use sponge to clean the grooves. Care should be taken not to use excess water or allow water to come in contact with the wet grout.

COVERAGE

One pack of 3 Kg yields 1.7 litre grout volume when mixed material applied at a thickness of 6.5 mm & Joint width of 3mm will cover 80 running metre.

PACKAGING

MasterTile 100 is available in 3 kg pack. It is available in twelve select shade.

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 24 months when stored as above.

PRECAUTIONS

Please refer the Material Safety Data Sheet for handling and storage of this product.

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