



TILE & STONE FIXING EXPERT



# T11

## RAINBOW TILE MATE (RTM)

DURABLE, CEMENT-BASED TILE JOINT FILLER



For Internal & External Floor & Wall



Available in different Colours



Easy to Clean



Non-Shrinking



Non-Cracking



Low VOC



Available in 500g, 1 kg & 10 kg pack.



# RAINBOW TILE MATE (RTM)

## DESCRIPTION

Roff Rainbow Tile Mate is a polymer modified, cement-based tile joint filler used for filling the joints/ gap between the tiles. It effectively fills the gaps and gives water resistant, non-dusting tile joints. It is designed for grouting glazed, ceramic, porcelain, vitrified & fully vitrified tiles & natural stones.

## STANDARD COMPLIANCE/ SPECIFICATION

Roff Rainbow Tile Mate complies to CG2W requirements as per "BS EN 13888:2009 - Requirements, evaluation of conformity, classification and designation grouts for tiles and ISO 13007- Part 3: Terms, definitions and specifications for grouts".

## AREA OF USE

Surface to be grouted	Area of application
All types of ceramic tile, glazed tiles, porcelain tiles, vitrified & fully vitrified tiles, natural stones*, glass mosaic tiles.	Floor and walls, internal & external area*, domestic applications, commercial applications*, wider tile joints*.

### \*Note :

1. For highly absorbent natural stones/ marbles which may form a wet or colored patch when tile grout is applied, do sample test to check for possible staining. It is recommended to use suitable Roff Impregnating sealer on all sides & mask the tiles before grouting.
2. Best results obtained when used in conjunction with Roff RTM wide additive. The addition of Roff RTM wide additive to cement based grouts will enhance adhesion to tile/stone edges, reduce water permeability and imparts flexibility which would be needed for wider gap up to 6mm, wet areas, commercial applications & external areas.
3. For application on any other substrate, please contact Roff personnel for technical assistance.

## FEATURES AND ADVANTAGES

- Easy to use & Clean - just mix with water, ready to use.
- Polymer modified - Crack free, minimum shrinkage & water resistance.
- Suitable for varied tile and stones - All Ceramic, vitrified tiles, granites etc.
- Available in range of attractive colors - Available in 15 colors.
- Best results obtained when used in conjunction with Roff RTM Wide Additive.
- Low VOC - For healthy living.

## LIMITATIONS

- Do not use in areas which are exposed to harsh chemicals, stagnant water & extreme/ critical conditions. Use Roff RTM Epoxy/ Roff Starlike for these areas.
- Adhesives/ tile grouts for ceramic tile, bricks and stone are not designed as replacements for waterproof coating. Use Roff waterproofing coating before tiling for wet area.
- Do not use acid to clean joints. Use Roff Cera clean for cleaning purpose.



# RAINBOW TILE MATE (RTM)

## TECHNICAL INFORMATION

### APPLICATION PROPERTIES (RTM Cement Tile Grout + Water)

Testing Properties	Test Results
Tentative Mixing Ratio (RTM : Water)	1 kg RTM : 0.33 – 0.40 kg Water (2.5 – 3 : 1 by weight)
Mixed Density	1.75 ± 0.05 kg/ litre
Pot life @ 30°C	Min. 60 minutes
Joint Width	Up to 3 mm
Sag Resistant	Non-sag
VOC Content (as per EPA 24)	< 1.2 gm/ kg
Application Temperature	From +10°C to +35°C
Light Foot Traffic	24 hours
Regular Traffic	7 days
Final Curing Time	28 days

### PERFORMANCE PROPERTIES AS PER EN 13888:2009/ ISO 13007 – PART 3)

Testing Properties	Requirement	Test Results
a) Compressive Strength, 28 days (EN 12808-3)	≥ 15 N/mm <sup>2</sup>	15 – 20 N/mm <sup>2</sup>
b) Flexural Strength, 28 days (EN 12808-3)	≥ 2.5 N/mm <sup>2</sup>	3 – 5 N/mm <sup>2</sup>
c) Linear Shrinkage, 28 days (EN 12808-4)	< 3 mm/m	< 0.5 mm/m
d) Water Absorption after 30 minutes (EN 128080-5)	< 5 gm	< 1 gm
e) Water Absorption after 240 minutes (EN 128080-5)	< 10 gm	< 2 gm

**Note :** Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.



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## APPLICATION INSTRUCTIONS



### SUBSTRATE PREPARATION

- Ensure 24 hours time interval for grouting after tile fixing.
- The joints must be dry, clean, free of dust & adhesive.
- Emptied at least 2/3 of the tile thickness depth.
- Before grouting, make sure that the installation the adhesive has set and released most of its moisture. The joints should not be wet during work.
- Put masking tape by side of grouting space or sealer if necessary.

### MIXING

- Take water into a clean mixing pail. Add RTM Powder and mix thoroughly by hand or with a slow speed mixer (<300 RPM).
- Avoid entraining air by mixing at very high speed or by over-mixing.
- Make sure that uniform color & lumps-free consistency is achieved.
- Allow the mix to slake for 2-5 minutes and remix.
- Use the paste within 60 minutes from mixing.

### APPLICATION



- Using a hard rubber squeeze/ grout floater, press the grout firmly into the joints.
- Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.
- Work in small areas to have better control on removing the excess grout from joints and surface by moving the squeeze diagonally to the grout lines.
- Ensure that joint is filled completely, and grout is not just sitting on top.

### CLEANING & FINISHING

- Clean off the surplus grout from tile joints and tiles within 30-45 minutes/ before the product dries.
- Initially use a rough textured sponge dampened with water to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- Clean off any light residue of tile grout left on the tile surface using an alkaline detergent/ Roff tile cleaner without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh.

### PRECAUTIONS & NOTE

- Do not apply on wet/damp tile joints. Always apply on completely dry tile joints.
- Do not over-mix the material. Over-mixing can reduce the pot life.
- Do not allow grout to harden on the face of the tile. Clean promptly.
- While cleaning change frequently the water. Change cleaning cloth/ sponge when they are impregnated with grout.
- Do not allow water to flow/run into un-grouted joints while application.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- In case of grouting natural stones, it is necessary to execute a preliminary test, in order to verify the absorption of color by the stone slabs. To avoid this problem, mask the tiles before grouting. A sealer or grout release may be required.



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## COVERAGE

CONSUMPTION TABLE DEPENDENT ON THE SIZE OF THE TILES AND WIDTH OF THE JOINTS (kg/m<sup>2</sup>)

Tile Dimension (mm)			Joint/ grouting Width (mm)							
Length	Width	Thickness	2	3	4	5	6	8	10	12
25	25	6	1.68	2.52	3.36	4.20	5.04	6.72	8.40	10.1
25	50	6	1.26	1.89	2.52	3.15	3.78	5.04	6.30	7.56
50	50	6	0.84	1.26	1.68	2.10	2.52	3.36	4.20	5.04
100	100	6	0.42	0.63	0.84	1.05	1.26	1.68	2.10	2.52
100	100	10	0.70	1.05	1.40	1.75	2.10	2.80	3.50	4.2
300	200	6	0.18	0.26	0.35	0.44	0.53	0.70	0.88	1.05
300	300	6	0.14	0.21	0.28	0.35	0.42	0.56	0.70	0.84
450	300	6	0.12	0.18	0.23	0.29	0.35	0.47	0.58	0.7
600	300	6	0.11	0.16	0.21	0.26	0.32	0.42	0.53	0.63
600	600	8	0.09	0.14	0.19	0.23	0.28	0.37	0.47	0.56
800	800	8	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42
1000	1000	10	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42
1200	600	10	0.09	0.13	0.18	0.22	0.26	0.35	0.44	0.52
1200	800	10	0.07	0.11	0.15	0.18	0.22	0.29	0.36	0.44
1200	1200	12	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42
1600	800	12	0.08	0.12	0.16	0.20	0.24	0.32	0.39	0.47
1800	1200	12	0.06	0.09	0.12	0.15	0.18	0.23	0.29	0.35

\*The coverage mentioned in table is indicative only and can vary as per the tile size, thickness, joint width & wastage during application.

## FORMULA FOR THE COVERAGE CALCULATION

$$C = 1.75 \times H \times T \times [(L + W) / (L \times W)]$$

C - Tile grout coverage (kg/m<sup>2</sup>)

H - Thickness of tile (mm)

T - Width of joint (mm)

L - Length of tile (mm)

W - Width of tile (mm)

## PACKAGING

500 gms, 1 kg & 10 kg packs

## SHELF LIFE

12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

## SAFETY PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.

For more details please refer the relevant Material Safety Data Sheet, available on request.



Construction Chemicals Division, Ramkrishna Mandir Road, Post Box No. 17411, Andheri (E) Mumbai 400059 INDIA

Tel +91-22-2835 7000 Fax +91-22-2835 7008 • Website : [www.roff.in](http://www.roff.in) • E-mail : [roff@pidilite.co.in](mailto:roff@pidilite.co.in) • Toll Free No. **1800 22 5502**

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