

DUROPOX - 99 (TILE GROUT)



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Polymer Modified Unsanded Tile Grout



Polymer based, Un-sanded cement grout for interior & exterior, floor & wall joints of width 1mm – 3 mm.



FEATURES / BENEFITS

- Weather resistant
- Easy application and clean up.
- Easy maintenance
- Non-cracking & Non-shrink
- Complies with IS 17190 / ISO 13007-4 CG1 standards.
- Water and shock resistant

Application

Designed for interior and exterior floor and wall joints of all types of ceramic tile, vitreous, semi-vitreous tile, glass mosaic tiles, precast terrazzo, engineered stone floors and natural stones. Recommended for Institutional and commercial general floor and wall areas. Can be mixed with water or DUROMIX Polymer grout admix and used for filling the joints of width 1mm to 3 mm.

Substrates

- Ceramic tile
- Vitrified tile
- Glass Mosaic Tiles
- Granite
- Marble
- Agglomerates (Engineered Stones)
- Precast Terrazzo tiles
- Bricks

Compliance

ISO 9001:2015



Certificate No. : Q9186414975



Authorized Signature
For HYM International Certifications Pvt. Ltd.

PERFORMANCE PROPERTIES

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APPLICATION PROPERTIES (Duropox - 99 Tile Grout+Water)

TESTING PROPERTIES	TEST RESULTS
Tentative Mixing Ratio (Duropox - 99 : 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
Saga Resistant	Non-sag
VOC Content (as per EPA 24)	< 1.20 gm/kg
Application Temperature	From +10°C to +35°C
Light Foot Traffic	24 hours
Regular Traffic	7 days
Final Curing Time	28 days

TEST PARAMETERS	REQUIREMENT AS PER IS 17190:2020 Type CG1	TEST RESULT	TEST METHOD
Linear Shrinkage	0.30 % maximum	0.22-0.26 %	IS 17190:2020(Annex-B)
Water Absorption (After 30min.)	15 % maximum	3.0-3.5 %	IS 17190:2020(Annex-C)
Water Absorption (After 240 min.)	---	4.5-6.5 %	IS 17190:2020(Annex-C)
Compressive Strength	15 MPa minimum	17-19 MPa	IS 17190:2020(Annex-D)
Flexural Strength	2.5 MPa minimum	2.8-3.2 MPa	IS 17190:2020(Annex-D)
Abrasion Resistance	3.0 % maximum	2.2-2.8 %	IS 17190:2020(Annex-E)
Traverse Deformation	N.A		IS 17190:2020(Annex-G)
Chemical Resistance	N.A		IS 17190:2020(Annex-F)

Remarks:- The Tile Grouts, DUROPOX-99 Tile Grout confirms to IS 17190:2020 Type CG1 with respect to above test results.

PERFORMANCE PROPERTIES

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TEST PARAMETERS	REQUIREMENT AS PER EN 13888(P-1):2022/ ISO13007-4:2013(en)	TEST RESULT	TEST METHOD
Abrasion Resistance	$< 2000 \text{ mm}^3$	$1200-1600 \text{ mm}^3$	EN 13888-2:2022 CLAUSE 9.4
<u>Flexural Strength</u> a) Under standard conditions b) After Freeze-Thaw Cycles	$\geq 2.5 \text{ N/mm}^2$ $\geq 2.5 \text{ N/mm}^2$	$3.5-3.8 \text{ N/mm}^2$ $3.4-3.7 \text{ N/mm}^2$	EN 13888-2:2022 CLAUSE 9.1
<u>Compressive Strength</u> a) Under standard conditions b) After Freeze-Thaw Cycles	$\geq 15 \text{ N/mm}^2$ $\geq 15 \text{ N/mm}^2$	$18-20 \text{ N/mm}^2$ $17-20 \text{ N/mm}^2$	EN 13888-2:2022 CLAUSE 9.1
Shrinkage	$\leq 3 \text{ mm/m}$	$1.3-1.5 \text{ mm/m}$	EN 13888-2:2022 CLAUSE 9.3
Water Absorption (After 30min.)	$\leq 2\text{g}$	$1.5-1.9 \text{ g}$	EN 13888-2:2022 CLAUSE 9.2
Water Absorption (After 240min.)	$\leq 5\text{g}$	$3.3-3.8 \text{ g}$	EN 13888-2:2022 CLAUSE 9.2

Remarks:-The Tile Grouts, DUROPOX-99 TILE GROUT confirms to EN 13888(P-1):2022/ISO13007-4(CG1) with respect to above test.

Packaging:

500 grams, 1 Kg & 10 Kg bag.

Colour:

Choose from range of colours available. Please refer the grout colour chart for choosing the colour required.

Working Properties at 70° F (21° C)

Working properties:

Pot life	60 minutes
Foot traffic	24 hours
Heavy traffic	7 days

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.

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.

Substrates

Important site Checks: Notes to the specifiers:

- It is recommended to check the colour of the grout, if it is meeting the desired colour of the client.
- It is recommended to do a small area with actual tile/stone at site and check for any colour ingress into the tile/stone. Many tiles / stones have high absorption which may lead to wet patches / discoloration / colour marks.
- Plan to provide proper movement joints, peripheral joints as per TCA, EJ 171 detail to accommodate movements in tile/stone and use flexible grout / sealant to fill these movement joints.
- When water is used for mixing with grout powder, non-absorbent tiles will have lesser demand of water to be mixed. It is estimated in the range of 3.30 Litres to 3.70 Litres for 10 Kg grout powder.
- For better color retention, flexibility and water resistance, use DUROMIX Polymer admix completely replacing water/a part of water.

Surface Preparation:

Before starting to grout, remove debris in grout joints and lightly sponge the tile surface to remove dust and dirt. Do not clean tiles with acid cleaners. In case acid cleaners were used to clean the tiles, ensure to wash the area with plenty of water to effectively remove acidic particle remains from the joints before commencing grouting. Substrate temperature must be between 60°F (16°C) and 90°F (32°C).

Mixing

Stir DUROMIX Polymer admix thoroughly before use. Use approximately 3.75 liters of water or DUROMIX for 10 kg of DUROPOX - 99 Grout powder. Place water or DUROMIX in a clean mixing container and add grout powder slowly. Mix by hand or with a slow speed mixer to a smooth stiff consistency. Potable grade of Water should be used for mixing with grout powder for best results.

Application

Dampen tile surface with water. Spread with a sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Ensure that joint is filled and grout is not just sitting on top (i.e. "bridging the joint")

Note : For fuller flush joints sprinkle a thin layer of dry grout powder over surface immediately after grouting. When grout darkens over joint, buff with burlap, carpet remnant or cotton rag to pack joint and clean face of tile.

Cleaning

Grout Primary Cleaning - Remove excess grout from the face of the tiles with the edge of the grout float. 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.

Grout Secondary Cleaning - Remove remaining grout with a damp sponge (not wet) or a damp towel. Work diagonally to the joints. Allow to dry. When the grout joints are firm polish the surface with a coarse nylon pad or coarse cloth and minimal water.

Note : Use caution when polishing soft glazed tiles or polished stone.

* Contact DUROXZ technical services for large format tile or stone installations on exterior surfaces.

Shelf Life

Factory sealed packs of this product are guaranteed to be of first quality for 24 months for pouch product* if stored off the ground in a dry area.

*High humidity will reduce the shelf life of bagged product for 12 months.

Limitations

- Consult with Technical Services for specific exterior grouting recommendations.
- For industrial applications exposed to high concentrations of food and mineral acids and to high heat, use DUROPOXY-15K Epoxy Grout.
- Protect from exposure to acids and strong cleaners during service periods. Acidic cleaners can neutralize the cement-based grouts which leads to change of colour, cracking and powdering
- Not recommended for soft, polished marble or delicate glazed tiles.



DUROXZ ITAL CHEMTECH PVT. LTD.,

Kirlampudi, E.G. Dist. Andhra Pradesh, INDIA.

E-mail : sales@duroxz.com | website : www.duroxz.com