



हर टाइल के पीछे MAGIC

DRYFLEX TILE ADHESIVE

TECHNICAL DATA SHEET



High Bond Strength



Water Resistant



Anti-Bacterial



No Sag



Easy to Mix & Apply



Low VOC



Available in 4 kg Pail

PRODUCT DESCRIPTION

Dryflex is a specially formulated two component epoxy tile adhesive used for installation of all types of tiles/stones & substrates in all weather conditions. It is specially designed for tiles and stones on drywall and plywood.

SUITABLE FOR

Materials and area

- Interior/Exterior floors and walls
- All types of Ceramic, Vitreous & Semi Vitreous tile
- Precast Terrazzo & Engineered stone
- Quartz, Natural Stones & Marbles
- Slim Tiles

Substrate

- Wood & Plywood
- Rubber, PVC and Linoleum surface
- WPC (Wood Polymer Composite board)
- Epoxy based surface
- Cement based Plaster/ Concrete/ Screed/ Terrazzo
- Fibre cement slabs
- Heating system
- Thermal Insulation panelling systems
- Concrete Masonry

TECHNICAL DETAILS

Conforms to IS 15477:2019 Type-5 'T'S2 | EN 12004 D2 'T' S2

PHYSICAL PROPERTIES @ 70° F (21° C)

PARAMETERS	RESULTS
Appearance	Part A Resin (Off White Paste) Part B Hardener (Yellowish Past)
Mixing Ratio	3 (Part A): 1 (Part B)
Mixed Material Appearance	Off White
Mixed Density	1700-1800 Kg/m ³
Pot Life	<60 Minutes
Open Time	30-40 Minutes
Final Setting Time	24 Hours
Adjustability	>30 Minutes
Time to Light Foot Traffic	2 Hours
Ready for Grouting	10 Hours
Ready to use	2 Days

PERFORMANCE PROPERTIES

IS 15477:2019

PARAMETERS	REQUIREMENTS	RESULTS	TEST METHODS
Tensile Adhesion (Dry Condition 28 Days)	1.50 N/mm ²	2.30–2.50 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Tensile Adhesion (Wet Condition 28 Days)	1.00 N/mm ²	2.10–2.30 N/mm ²	IS 15477:2019 Annexure A Clause 5.1
Shear Adhesion (Dry condition 28 Days)	1.50 N/mm ²	2.10–2.30 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	1.00 N/mm ²	1.30–1.50 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Shear Adhesion (Wet Condition 28 Days)	1.00 N/mm ²	2.00–2.10 N/mm ²	IS 15477:2019 Annexure B Clause 5.2
Slip Resistance	<0.50mm	0.2–0.3 mm	IS 15477:2019 Annexure E Clause 5.5
Deformability	>5 mm	5–6 mm	IS 15477:2019 Annexure F Clause 5.6

Dryflex adhesive conforms to IS 15477:2019 Type 5 'T' S2

EN 12004

PARAMETERS	REQUIREMENTS	RESULT	TEST METHODS
D2-Dispersion Adhesive With Improved Characteristics			
Tensile Adhesion Strength	≥1.0 N/mm ²	2.10–2.30 N/mm ²	EN 1348
Tensile Adhesion Strength After Water Immersion	≥1.0 N/mm ²	2.00–2.10 N/mm ²	EN 1348
Tensile Adhesion Strength After Heat Ageing	≥1.0 N/mm ²	1.30–1.50 N/mm ²	EN 1348
T – Slip Resistance	<0.5mm	0.3–0.5mm	EN 1308
E – Extended Open Time	≥0.5 N/mm ² after not less than 30 min	35–40 Minutes	EN 1346
S – Transverse deformation (S2)	>5 mm	5–6 mm	EN 12002

Dryflex adhesive conforms to EN 12004 D2 'T' S2

ANSI A118

PARAMETERS	REQUIREMENTS	RESULTS	TEST METHODS
Open Time (30 Minutes at 28 days)	0.50 N/mm ²	0.70–0.80 N/mm ²	Clause – 5.3
Sag Resistance	0.50 mm	0.20–0.30 mm	Clause 6.0
Glazed Wall Tile			
Shear Strength (7 Days Normal Condition)	2.07 N/mm ²	2.40–2.55 N/mm ²	Clause – 7.1.2
Shear Strength (7 Days Water Immersion)	1.38 N/mm ²	1.60–1.75 N/mm ²	Clause 7.1.3
Porcelain Mosaic Tile			
Shear Strength (1 Day Normal Condition)	0.50 N/mm ²	0.70–0.90 N/mm ²	Clause – 7.2.2
Shear Strength (7 Days Normal Condition)	1.38 N/mm ²	1.90–2.10 N/mm ²	Clause 7.2.3
Shear Strength (7 Days Water immersion)	1.03 N/mm ²	1.50–1.70 N/mm ²	Clause 7.2.4
Shear Strength (28 Days Normal Condition)	1.38 N/mm ²	2.00–2.20 N/mm ²	Clause 7.2.5
Shear Strength (28 Days Freeze–Thaw cycling)	1.20 N/mm ²	1.60–1.80 N/mm ²	Clause 7.2.5
Shear Strength (12 Weeks Normal Condition)	1.38 N/mm ²	2.00–2.20 N/mm ²	Clause 7.2.7
Quarry Tile			
Shear Strength (28 Days Normal Condition)	1.03 N/mm ²	1.70–1.90 N/mm ²	Clause – 7.3.2
Shear Strength (28 Days Freeze–Thaw Cycling)	0.69 N/mm ²	1.40–1.60 N/mm ²	Clause – 7.3.3

Dryflex adhesive conforms to ANSI A118.4ET

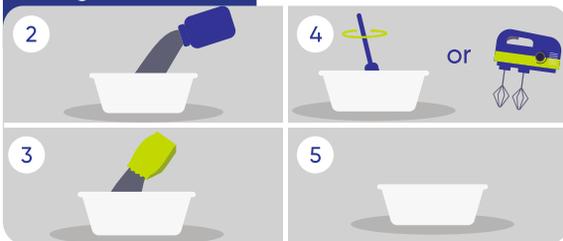
INSTALLATION

Surface Preparation



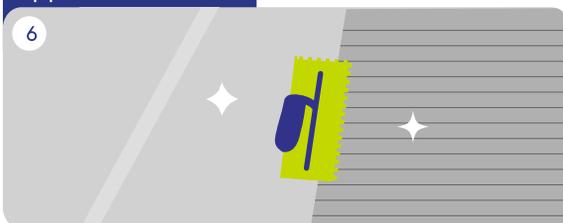
- All surfaces must be dimensionally stable (according to IS 1443:2018), level, cured, undamaged, compact, rigid, moisture-resistant, and free from debonding agents and damp rising. It is good practice to dampen highly absorbent concrete surfaces.
- For cementitious substrates waterproofing/tiles the surface should be within 5°C to 35 °C and should be brought to touch dry condition before commencement of application.
- For Drywalls and other substrates only, dry cleaning is recommended.

Mixing



- Our hardener (Part B) in Resin (Part A) in a bucket and mix well until you achieve a smooth, consistent mixture. It is advisable to use a low-speed electric stirrer to ensure perfect mixing and avoid overheating the mix, which would reduce the working time.
- It is advised to mix resin and hardener for at-least 1-2 minutes thoroughly until uniform colour is obtained with no lumps.
- The mixture should be used within 10-15 minutes of mixing, depending upon the environment conditions.
- Do not add water in the mixture.

Application



- Apply the mixture onto the surface covering up to 1 m² at a time using a flat edge of the trowel firmly pressing against the substrate.
- Using the notched side of the notch trowel, comb the adhesive to achieve the required thickness.
- Double Back Buttering is recommended for heavier stones. Avoid void formation while back buttering to the tile.
- Occasionally check to inspect tiles are properly stuck. If the adhesive seems to be non-sticky, remove the existing and replace with fresh adhesive. Use a rubber mallet to tap the tile and ensure it is fully bedded in the adhesive.
- To accommodate thermal expansion and contraction it is recommended to keep an adequate distance between the tiles & stones.
- Clean any excess adhesive on the tile or stone before the adhesive hardens, which would be difficult to clean afterwards.

Cleaning



- Clean any excess adhesive from the tile surfaces and grout lines immediately with a damp sponge or cloth. Once cured, it can only be removed with the help of mechanical means.

Note- Specifications are 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.

Grouting



- Grouting should be carried out after 24 hours of tiling. It is advisable to use the appropriate grouting material from Magicrete range of cementitious or epoxy grouts.

COVERAGE

- A coverage of 8-10 Sq. Ft. per pail of 4 kg is received when used with a bed thickness of 3mm.

Note: Coverage is based on smoothness and evenness of the substrate, and the thickness of the mortar used.



SHELF LIFE

Factory packed pail of Dryflex carries a shelf life of 9 months in its original packaging, if stored in cool & dry place. However, as temperature and other humidity parameters vary from site to site, this information should be treated as a general guideline.

LIMITATIONS

Adhesives and grouts for tiles are not replacements for waterproof membranes. When a waterproof membrane is required, use Magicrete waterproofing products by Magicrete or any other waterproofing product available in the market.

SAFETY PRECAUTIONS

- Keep out of reach of children.
- Wear suitable protective clothing, gloves, and eye/face protection.
- After contact with the skin, wash immediately with plenty of clean water.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical advice.

IMPORTANT NOTES

- During cold weather, protect finished work from use until fully cured.
- Workability times may vary, depending on environmental conditions and the temperature of the tiles.
- Do not lay on substrates subject to moisture rising or which are not completely dry.
- Pre-wet/dampen highly absorbent concrete surface with good quality fresh water and let the surface dry, to a touch dry condition, before use.
- Leave gap between the tiles with the help of spacers & fill gaps with Magicrete Tile Grout.
- It is mandatory to use appropriate size notched trowel to achieve required thickness of adhesive.

*While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company office in your location.

magicrete[®]
magic behind happy homes



Magicrete Building Solutions Pvt. Ltd.

(ISO 9001 :2015, ISO 14001 :2015 & ISO 45001 :2018 Certified co.)

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