



DUOFLEX 90 PREMIUM WHITE CERAMIC TILE ADHESIVE

BASIC USES

For installation of all types of ceramic and mosaic tile, light or translucent marble tile on interior wall and floor installations over concrete, concrete backer board, plywood, gypsum board and existing ceramic tile. Recommended for use on shower or tub surround walls on approved backer boards. May be used for installation of some floor tiles in light traffic areas.

COMPOSITION AND MATERIALS

A premium white, acrylic latex-based mastic adhesive which cures to provide a water resistant, resilient bond. A low odor, freeze-thaw stable, easy spreading, ecologically safe, low VOC adhesive that provides excellent slip resistance.

FEATURES

- Excellent adhesion to most substrates.
- Excellent slip resistance on vertical applications.
- Excellent workability.
- Non-Flammable.
- Water resistant when cured.
- Ecological, low VOC formula.
- Cures to a white film—will not stain most white or light colored marble tile.

LIMITATIONS

Do not use over particleboard, Masonite, chipboard, OSB or similar unstable materials. Do not use over rubber, plastic, paint, asphalt, or plywood surfaces in wet areas. Do not use over single layer plywood floors. Use only on surfaces, which are maintained at a temperature above 10° C (50° F) during application and for at least 72 hours after application. Do not use on exterior applications or in pools, tanks, jacuzzis, shower floors or other areas to be immersed in water. Do not use for setting bathroom fixtures. Not recommended for use with large format floor tiles, green marble or other moisture sensitive stone tiles, or for floor applications in regular traffic or heavy service areas.

LEED Points Contribution

MR Credit 5, Regional Materials*
IEQ Credit 4.1, Low-Emitting
Materials – Adhesives & Sealants
IEQ Credit 4.3, Low-Emitting
Materials – Flooring Systems
**May be eligible*

LEED Points
Up to 2 points

1 point

1 point

TECHNICAL DATA

Exceeds ANSI A136.1 Type 1 requirements.

Typical Physical Properties

Open Time	30 minutes
Initial Cure	24-48 hours
Final Cure	28 days

Shear Strength

Exceeds ANSI A136.1 Type 1 dry & wet requirements	
Flammability	Non-flammable
Freeze-thaw	
Stability	-18°C (0°F)
pH	8.50
Colour	White
Cleanability :	With water before material dries
Shelf Life:	1 year from production date when stored unopened @ room temperature

Approximate Coverage

5mm (3/16") V notched trowel-1.2 M ² / Liter (50 Ft ² / Gallon)
6mm (1/4") square notched trowel-0.6 M ² / Liter (25 Ft ² / Gallon)

** Coverages given are for estimating purposes only. Actual coverages may vary depending on job site conditions and installation techniques used.*

INSTALLATION

PREPARATORY WORK

Surfaces must be sound, even, dry and free of grease, oil, dirt, paint, curing compounds or sealers, or other foreign matter.

Surfaces must be true to a tolerance of ± 3 mm (1/8") in 2.4 meters (8 ft.) for walls and 6mm (1/4") in 3 meters (10 ft.) for floors. Work area should be maintained at a temperature of 10° C (50° F) or higher during application and until adhesive is cured. Refer to current editions of TTMAC 09 30 00 Tile Installation Manual, or TCNA Handbook for Ceramic Tile Installation for information regarding placement of expansion or control joints, or for further substrate acceptability information.

APPLICATION

Apply sufficient adhesive firmly to substrate with the flat edge of trowel, then comb with appropriately sized notched edge to give at least 85% contact with the back of tile. Do not spread more adhesives that can be covered with tile before adhesive starts to skin. If skinning occurs, scrape adhesive off and apply fresh material. Press tiles firmly into position with a slight twisting motion and immediately adjust for correct alignment and joint spacing. Clean adhesive from face of tile while still wet with a damp cloth.

CURING AND GROUTING

Protect from water until fully cured. Allow wall tile to cure for at least 24 hours and floor tile to cure for at least 72 hours prior to grouting. Remove spacers from joints once tile adhesive begins to set. Grout using Flextile Polymer Modified Grout or Flextile Flex-Epoxy 100 –100% Solids Epoxy Grout, or Flextile ColourMax Plus Pre-Mixed Urethane Grout.

SAFETY

Refer to Flextile Material Safety Data Sheet for health and safety information.

AVAILABILITY AND COSTS

Flextile Duoflex 90 Type 1 Ceramic Adhesive is available from Flextile Ltd. and its distributors in 13.25 L (3.5 U.S. gals.), 4 L (1.06 U.S. gals.), and 1 L (1.06 U.S. Qt.) pails.

Cost: Data supplied upon request.

WARRANTY

Flextile warrants that this product is of merchantable quality and is suitable for the purpose for which it is intended. Flextile's liability under this warranty shall be limited to replacement of its product found to be defective or, at its option, a refund of the purchase price.

MAINTENANCE

No maintenance is required except where damages result from unforeseen circumstances. Repair procedures shall be directed by Flextile or its distributors.

TECHNICAL SERVICES

Flextile maintains a well-equipped laboratory able to test its products in conjunction with the products with which they are used. Technical assistance for use of Flextile products is available upon request.

RELATED REFERENCES

Current editions of: Ceramic Tile Installation Manual (09 30 00) from the TTMAC & TCNA Ceramic Tile Installation Handbook.

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