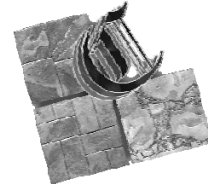


MortCrete AB10

100% Solids Epoxy Tile Grout



DESCRIPTION • *MortCrete AB10* is a high performance, three-component, solvent-free blend of epoxy resin and fillers used for grouting and bedding of various tiles over a variety of substrates. *MortCrete AB10* delivers a heavy duty grout with high strength, excellent chemical resistance to acids, alkali and solvents, and maximum protection against staining and bacterial attack, making it ideal for conditions with corrosion and hygienic considerations.

USES • *MortCrete AB10* may be used with virtually any type of tile: vitreous, non-vitreous, or impervious tile. *MortCrete AB10* should be used wherever superior mechanical properties and resistance to chemical attack are required because of the presence of acids, alkali, solvents, and heavy detergents which would normally cause damage and erosion to cement-based grouts. Such areas include industrial plants, food processing plants, bottling operations, dairies, and textile plants. *MortCrete AB10* should also be used where sanitary, hygienic conditions are required such as hospitals, restaurants, countertops, and food preparation areas. *MortCrete AB10* may be used on vertical as well as horizontal applications.

ADVANTAGES

- ✓ Maximum chemical and stain resistance.
- ✓ Impervious to most acids, alkali, and solvents.
- ✓ Prohibits bacterial growth.
- ✓ Impermeable when immersed in water.
- ✓ Excellent adhesion to most substrates.
- ✓ Available in many colors.
- ✓ Easy to work with.
- ✓ Easy to clean and maintain.
- ✓ Fills a wide range of joint widths (2-10 mm)

TECHNICAL DATA

Density	1780 kg/m ³
Pot Life	85 mins at 20°C 55 mins at 30°C
Compressive Strength (BS 6319 Part 2)	88 N/mm ²
Initial Set @ 24°C	3 hours
Final Set @ 24°C	24 hours
Final Cure @ 24°C	7 days
Flexural Strength (BS 6319 Part 3)	26 N/mm ²
Tensile Strength (BS 6319 Part 7)	23 N/mm ²
Max. Service Temperature	60°C

Chemical Resistance	
<u>Acids</u>	
Hydrochloric Acid 50%	Excellent
Nitric Acid 25%	Excellent
Sulfuric Acid 50%	Excellent
Phosphoric Acid 50 %	Excellent
Acetic Acid 10%	Excellent
Lactic Acid 10%	Excellent
Citric Acid 5%	Excellent
<u>Alkali</u>	
Sodium Hydroxide	Excellent
Ammonia 10 %	Excellent
<u>Solvents</u>	
Petrol, Oil, Kerosene	Excellent
Butanol	Very Good
Hydrol	Good
<u>Other Solutions</u>	
Bleach (conc)	Excellent
Saturated Sugar	Excellent
Urea	Excellent

COVERAGE • **As Mortar:** 3.0-3.6 m²/5 liter kit when using a 6x6x6 mm square-notch trowel. **As Grout:** Coverage will vary depending on tile size, joint width and depth. Coverage rates are approximate and may be reduced by 10-20% due to waste and project conditions. Coverage rate in m²/5 liter kit:

Tile Size (mm)	Joint Width				
	1.5 mm	3 mm	6 mm	9.5 mm	12.5 mm
25 x 25 x 4.5	6.51	3.36	1.78	1.32	1.05
50 x 50 x 6	12.76	6.51	3.36	2.30	1.78
106 x 106 x 6	26.91	13.55	6.91	4.67	3.55
150 x 150 x 6	37.89	19.01	9.61	6.51	4.93
200 x 200 x 9.5	33.62	16.91	8.49	5.72	4.34
300 x 300 x 9.5	50.39	25.26	12.70	8.49	6.45
400 x 400 x 9.5	67.11	33.62	16.91	11.32	8.49

LIMITATIONS • *MortCrete AB10* must be mixed in exact proportions as supplied in kit. DO NOT DILUTE WITH SOLVENTS. *MortCrete AB10* should not be used where exposure to temperatures above 121°C for extended periods of time is expected. Do not mix or apply if ambient temperature is expected to drop below 10°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24 hour period after application. Best if applied in ambient temperatures between 21°C and 29°C. If applied in areas subject to continuous water exposure, allow to cure for a minimum of 3 days prior to water exposure. A full cure of 14 days is necessary prior to submersion in chemically treated water. Will discolor painted and anodized surfaces upon contact; protect such surfaces prior to installation. Vertical grout lines should not exceed 5 mm in width.

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SURFACE PREPARATION • Substrate to which tiles will be attached must be dry, structurally sound and not subject to temperatures below 15°C or above 45°C during installation. Joint lines must be free of dirt, laitance, grease, oil, sealers, curing compounds, efflorescence, and all contaminants. Concrete surfaces must be fully cured and dry. Cracks or other minor damage must first be repaired prior to application of tile. Prior to installation of grout, **MortCrete AB10** must be stored for 24 hours in a cool, shaded area at 20°C away from direct sunlight, heat, or extreme temperature variations which may cause inconsistent workability and cure time. Smooth, steel troweled concrete floors must be roughened prior to application to insure a proper bond.

MIXING • DO NOT MIX PARTIAL UNITS. Pour the entire contents of parts A and B into a suitable container and mix thoroughly until color streaks are eliminated. Best results are obtained with a power mixer at low speeds (300 RPM or less); do not use high mixing speeds in order to avoid entrapping air bubbles in the mix. MAKE SURE TO SCRAPE BOTTOM AND SIDES OF CONTAINER DURING MIXING.

The fillers component (part C) should then be added to the mixed liquid and blended until a homogenous consistency is achieved. Do not over-mix.

APPLICATION • **As a Mortar:** Spread a thin coat of the mortar with the flat edge of a trowel or spatula. Apply a second coat using notched edge of trowel. Alternatively, apply a second coat of sufficient thickness to subsequently notch with a proper trowel. Press tiles firmly onto mortar in a perpendicular direction to insure flattening of ridges in the mortar and complete coverage of the tile back surface. Should any of the epoxy mortar come in contact with the tile surface, remove immediately with a damp sponge; do not allow epoxy mortar to cure on any unintended surfaces. Occasionally remove a tile to make sure that the mortar is not being skinned over and that adequate transfer is taking place.

As a Grout: Mortar must be fully cured and tiles firmly attached to substrate before any grouting operation. Porous and rough surface tiles should be sealed prior to grouting to prevent staining. Remove all spacers and insure that grout joints are clean and free of any contaminants or excess mortar. Holding a hard rubber grout float at a 45° angle, force grout diagonally into joints until joints are completely filled. Remove excess grout using edge of float held at a 90° angle and pulling it diagonally across the grout joints. Remove as much of the grout as possible; do not allow the epoxy grout to set or cure on the face

of the tile. Apply liberal amounts of clean water, optionally with no more than a few drops of dishwasher detergent. Using a clean grout sponge, work in a circular motion using as little pressure as possible. Finally, after removing water, drag a clean, wet cotton towel flatly across the tiles to remove any traces of epoxy film.

CURING • Proper temperature is essential for curing of any epoxy material. Maintain ambient temperatures at no less than 10°C; use additional heating if necessary. Open to light foot traffic 24 hours after installation and heavy traffic 72 hours after installation. Avoid harsh industrial cleaners for 7 days after installation. Protect from aggressive chemicals for 14 days after installation. Maintenance for first 7 days after installation should be done only with clean water.

CLEANING • Clean all tools, equipment, and hands promptly with clean water before material dries. If necessary, tools may be cleaned with organic solvents.

STORAGE • Keep material covered and away from direct sunlight, heat sources, or freezing conditions. Material should be stored at 25°C in dry conditions. When stored at specified conditions in original unopened packaging, shelf life is 12 months from date of purchase.

SAFETY PRECAUTIONS • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. The application of material should be under good ventilation. Avoid inhalation of the vapors. Use goggles and vinyl gloves. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water, do not use solvents and seek medical attention immediately. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

PACKAGING • 5 liter kit.

Creative Concrete Concepts

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