BASALITE®
Concrete Products, ULC

FLOOR TOP®

SELF LEVELLING MORTAR

DESCRIPTION: FLOOR TOP® is a sanded, Portland cement based self levelling interior floor topping. FLOOR TOP® is fast setting, provides a smooth and level floor and will not shrink, crack or spall. FLOOR TOP® is designed to be used on substrates that have been properly prepared with BASALITE PRIME SEAL.

USES: FLOOR TOP® is recommended for any concrete surface application requiring a level, smooth underlayment prior to installing the final flooring system (tile, carpet, resilient floorings). FLOOR TOP® is also ideal for repair to new floor construction problems such as weather damage, uneven concrete or rough screeding. FLOOR TOP® can also be used on "Exterior Grade" plywood.

ADVANTAGES: FLOOR TOP® provides a smooth, flat surface and requires no trowelling. FLOOR TOP® may be applied from featheredge to 1" in just one application. The fast-setting underlayment may be walked on in just 4 hours and the final floor covering may be installed within 5 to 8 hours which saves both time and money.

PROCEDURES: SURFACE PREPARATION: All surfaces to be in contact with FLOOR TOP® must be clean and be entirely free of oil, grease, or any other foreign substances which interfere with the bond and chemical action of the material. Remove all loose or unsound concrete and roughen the exposed surface. Apply PRIME SEAL to ensure a uniform surface. Use approximately 1 litre per 100 square feet for new dense concrete and 2 litres per 100 square feet for old porous concrete. Let the primer completely set prior to applying FLOOR TOP®. Normally, PRIME SEAL sets in 1 hour. Refer to PRIME SEAL technical data sheet for further information.

MIXING: (for application thickness up to ½") FLOOR TOP® may be hand mixed for small jobs, but for larger jobs it should be mechanically mixed with a heavy duty, high RPM drill and a high shear "Jiffler" type mixer paddle blade. Empty the entire 22.7 kg (50 lb.) sack into 3.86 litres of potable water. Consistency may vary due to type of mixer used, RPM of mixer and condition of mixer paddle. Always add FLOOR TOP® to water and not the reverse. Mix FLOOR TOP® for 5 minutes so that the material has been thoroughly blended. Exceeding the maximum recommended water per bag is not recommended and will weaken the mortar.

PLACING: FLOOR TOP® may be poured directly from the mixing container, a spreader may be used to assist placement. Material should be placed within 15 minutes after mixing. Final screening or trowelling is not required as FLOOR TOP® is self-leveling. FLOOR TOP® should be applied in temperatures from 15 to 25 ^{0} C (68 to 86 ^{0} F); however, 22 ^{O} C (72 ^{0} F) is ideal. Cooler temperatures will slow set and strength gain and warmer temperatures will accelerate set and strength gain.

CURING: Curing newly placed FLOOR TOP® is not required, but the ambient temperature should be kept at 20 ^{o} C or higher, with a relative humidity between 50% to 70%.

MIXING: (for application thickness from 1/2" to 1") Follow items 1 through 4 but add no more than 3.4 litres of water per sack.

TECHNICAL DATA: The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field may vary from those stated.

	Test Method	Flowable
Water Content		17%
W/C		.50
Spread	NACAN	313%
Compressive Strength MPa (psi)	ASTM C 109 (Modified)	
4 Hours		10 (1450)
1 Day		12 (1740)
7 Day		15 (2175)
28 Day		25 (3625)
56 Day		35 (5075)
Flexural Strength	ASTM C 348	10.7 MPa (1550 psi) @ 28 days
Drying Shrinkage	ASTM C 596	0.13%
Volume Change	ASTM C 157	-0.13%
Abrasion Resistance	Tabor	0.41% less
Tensile Bond (to Concrete)	Agra	1.0 MPa (145 psi) @ 28 days
(to Plywood)	NACAN	0.8 MPa (116 psi) @ 28 days
Rehealing Time (working time)	NACAN	15 minutes (@ 20^{0} C)
Set Times-Minutes	ASTM C 266	90 initial 180 final
Moisture content at 4 hours		6 %
Density		2159 kg/m^{3} (135 Pcf)

YIELD: One 22.7 kg (50 lb.) sack covers approximately 1.9 square metres (20.0 square feet), 6 mm (1/4 inch) thick. One 22.7 kg (50 lb.) sack will yield 0.011 m^3 (0.42 ft^3)

LIMITATIONS:

- Make a small test patch prior to application to ensure familiarity with the product and that site requirements are met for placing FLOOR TOP®.
- FLOOR TOP® is not recommended for exterior application.
- FLOOR TOP® is strictly an underlayment material and is not intended for use as a structural load bearing or wearing surface.
- Exceeding the maximum recommended water content per sack will result in inferior physical properties.
- Prior to applying an adhesive to the surface of FLOOR TOP®, check with the adhesive manufacturer for the required moisture content of the floor.
- FLOOR TOP® must be stored indoors and applied at a temperature of between 15 ^{o} C and 25 ^{o} C. Temperatures lower than 15 ^{o} C will slow set and strength gain while temperatures above 25 ^{o} C will cause excessive loss of moisture.
- Use FLOOR TOP® only on exterior grade plywood. The subfloor construction must be stiff and well supported (minimal deflection).
- Liability for damages or defective goods shall be limited to the refund of the purchase price or replacement.

PACKAGING: FLOOR TOP® is packaged in 22.7 kg (50 lb.) triple lined paper bags and 10 kg (22 lb.) plastic tubs. All Basalite Dry Mix can be custom packaged to suit specific project requirements.

SAFETY PRECAUTIONS: Normal safety wear such as rubber gloves, dust mask and safety glasses, used to handle conventional cement-based products, should be worn. Material Safety Data Sheets are available upon request.

Toll Free 800-596-3844

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