

DESCRIPTION: FLOOR TOP® is a sanded, Portland cement based self levelling interior floor topping. FLOOR TOP® 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 wood subfloor - see limitations section below for details .

ADVANTAGES: FLOOR TOP® provides a smooth, flat surface and requires no troweling. It may be applied from featheredge to 2" thickness. FLOOR TOP® is a fast-setting underlayment and may be walked on in just 4 to 6 hours of placement. The final floor covering may be placed within 8 hours. Allow FLOOR TOP® to cure for at least 24 hours before installing moisture sensitive flooring. Always follow the flooring manufacturers recommendation before application of floor covering over FLOOR TOP®.

PROCEDURES: **SURFACE PREPARATION:** All surfaces to be in contact with FLOOR TOP® must be clean and be entirely free of any contamination like oil, grease, paint, dust, dry wall compound, gypsum compound, loosely bonded toppings or any other foreign substances which may interfere with the bond and chemical action of the material. The surface preparation must be sufficient to remove and eliminate penetrated contaminants. Acid etching and the use of solvent adhesive removers is not recommended for surface preparation. All concrete surface must be mechanically profiled to a minimum of Concrete Surface Profile 3 (CSP 3) by shot blasting, grinding or using similar mechanical means. Higher CSP may be required for increased performance in demanding applications. Follow International Concrete Repair Institute (ICRI) guidelines for more details. Apply PRIME SEAL to ensure a uniform surface. Use approximately 1 liter per 100 square feet for new dense concrete and 2 liters 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: 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. Slowly add the entire content of 22.7 kg (50 lbs) sack into 3.86 liters 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 3 to 5 minutes and make sure that the material has been thoroughly blended. Moving the mixer up/down many times during mixing process may cause air to get trapped which could result in shortening the pot life of the product and/or cause pinholes during curing. Exceeding the maximum recommended water per bag is not recommended and will weaken the product. For application thickness of over 1/2" - add no more than 3.4 liters of water per sack.

PLACING: FLOOR TOP® may be poured directly from the mixing container. A long-handled gauge rake or spreader may be used to assist placement to a desired thickness. Spiked roller may be used to remove any entrapped air and break the materials surface rheology to give more consistent finish. Material should be placed within 10 minutes after mixing. Final screeding or troweling is not required as FLOOR TOP® is self-leveling. Ambient, substrate and product temperature should be maintained between 10°C - 25°C (50°F - 86°F) for placement; however, 22°C (72°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 48 hours before placement, during placement and 72 hours after placement of floor top is completed, the building and substrate must be heated to a minimum of 10°C and a maximum of 25°C with a relative humidity between 50% to 60%.

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.

PROPERTIES	TEST	FLOWABLE
Water Content		17%
Walk on Time		4-6 hours
Spread		313%
Set Times	ASTM C1708	90 initial / 120 final
Healing Time (Working Time)		15 minutes
Drying Shrinkage @ 28d	ASTM C157	0.121%
Density		2100 kg/m3
Compressive Strength: MPa (psi)	4 hr	10 (1450)
	1 day	12 (1740)
	7 day	15 (2075)
	28 day	25 (3625)
	56 day	30 (4350)
Flexural Strength: MPa (psi)	1 day	4.0 (580)
	28 day	8.3 (1203)
Tensile Bond: MPa (psi)	Concrete	1.0 (145)
	Plywood	0.8 (116)

YIELD: Approximate coverage per 22.7 kg (50lbs) bag is as below:

Thickness	Coverage/bag
3.18 mm (1/8")	41.5 sqft
6.30 mm (1/4")	20.5 sqft
12.70 mm (1/2")	10.2 sqft

The above table is for estimation purpose only. Actual coverage may vary based on jobsite conditions and installation practices.

LIMITATIONS:

- ⇒ Pour a small test area prior to final application to ensure familiarity with the product, proper bonding and appearance. It will also help understand if the 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.
- ⇒ Confirm with the adhesive manufacturer for the required moisture content of the floor before applying the flooring adhesive to the surface of the FLOOR TOP®.
- ⇒ FLOOR TOP® must be stored indoors and applied at a temperature of between 10°C and 25°C. Temperatures lower than 10°C will slow set and strength gain while temperatures above 25°C will cause excessive loss of moisture.
- ⇒ The wood subfloor shall be of solid wood or structural wood panel construction as defined in ASTM F2873 and installed in accordance with ASTM F1482, clean, permanently dry, and free of any oil, grease, dirt, and other contaminating substances that could affect the performance or act as a bond breaker. Loose boards shall be mechanically fastened. Badly cupped or warped board subfloors shall be replaced before installation of underlayment. Any loose sections shall be fastened and any weak or delaminated sections shall be removed and replaced.
- ⇒ Liability for damages or defective goods shall be limited to the refund of the purchase price or replacement.

PACKAGING: FLOOR TOP® is packaged in 22.7kg (50lb.) 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. Safety Data Sheet is available online at www.basalite.ca.