



# FLOORPRIME<sup>®</sup> EP5104

100% solid Epoxy Primer/Sealer for Concrete

## PRODUCT DESCRIPTION:

**FloorPrime<sup>®</sup> EP5104** is a 100% solid two-component, penetrating epoxy primer/sealer used to prime and seal concrete surfaces. It is used as part of a complete Floorkrete flooring system in conjunction with other Multichem products.

## BENEFITS:

- *Low viscosity formulation penetrates and seals concrete pores.*
- *Provides superior adhesion to concrete and higher tensile and flexural strengths when compared to conventional polyamide primers Cures at ambient temperatures down to 10°C.*
- *Resistant to amine blush, even when cured at low temperatures and high humidity.*
- *Requires zero induction time.*

## USES:

### APPLICATION

- Concrete floors and slabs
- Where moisture vapor transmission of substrate exceeds 1.3 Kg per 1000 ft<sup>2</sup> over 24 hours
- Where vapor drive of porous concrete surfaces needs to be controlled
- Where low-odor applications are desired

### LOCATION

- Interior

### SUBSTRATE

- Horizontal concrete floors and slabs

## TECHNICAL DATA:

Parameters	Values
Coverage	0.1kg/m <sup>2</sup> /0.1mm thk
Recoating Interval	3-4 hours, Depending on Temperature
Shore D Hardness	80-85
Drying Time	Surface dry: 30 minutes Touch Dry: 4-6 hours
Pot Life	30 minutes
Bond Strength	Not less than 1.6 N/mm <sup>2</sup>



MULTICHEM GROUP | 510, Exim Link, MG Link Road, Nahur (W), Mumbai-400078, Phone No.: 91-9323890195, 9619091025, e-mail: info@multichemgroup.net

[www.multichemgroup.net](http://www.multichemgroup.net)

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## DIFFERENT VERSIONS OF FloorPrime®

**FLOORPRIME® EP(W):** Water based Epoxy Primer

**FLOORPRIME® PU:** Polyurethane based primer

## APPLICATION DATA:

### PREPARATION:

1. Ensure that floors are structurally sound and fully cured a minimum of 28 days.
2. Repair concrete and install joint sealants and fillers as necessary. Use patching materials as appropriate.
3. Mechanical surface profiling is the preferred floor preparation method for both new and existing floors. It is the only acceptable preparation method where warranties are issued. Acid etching is not recommended. Mechanically profile the floor to medium-grit sandpaper texture. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
4. Measure the moisture vapor transmission rate (MVT) after shotblasting by conducting a calcium chloride test in accordance with ASTM F 1869.
5. If the test shows that a rate of 1.3 Kg/1000 ft<sup>2</sup> in 24 hours is exceeded, then **FloorPrime® EP5104** Concrete Floor Primer is needed prior to the use of **Floorkrete®** flooring installation products.
6. One coat of **FloorPrime® EP-5104** Concrete Floor Primer will reduce MVT by half. Multiple coats of **FloorPrime® EP-5104** Concrete Floor Primer may be required. Once the MVT is under 1.3 Kg, the flooring installation products can be applied.

### MIXING:

1. This product has a limited pot life; complete all preparations before starting the mixing sequence.
2. It is very important to properly mix the components of this product together in the exact manner and sequence specified in the following instructions in order to form a stable emulsion and ensure proper film formation. Before combining Parts
3. A and B, premix each separately. When mixing, wear protective gloves and goggles to avoid injury from splashes.
4. To mix **FloorPrime® EP-5104** Concrete Floor Primer, pour the entire contents of Part B (Hardener) from the pail and insert into Part A in the



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bottom of the pail. Scrape out remaining material in the liner, being careful not to spill any. The Part A (Resin) container is oversized to allow for easy mixing.

5. DO NOT MIX BY HAND. Mix with a Jiffy mixer blade and an electric drill at very low speed for 3 – 4 minutes. Scrape sides of the container several times to ensure complete mixing. Keep the mixer blades immersed in the material to avoid introducing air bubbles.
6. Use primer within its pot life.

## PLACING:

1. Floor and atmospheric temperature must be between 16 – 27°C during the application of **FloorPrime<sup>®</sup> EP-5104** Concrete Floor Primer.
2. Apply the mixed material from a roller tray using a high-quality 3/8" (10 mm) woven roller or trowel at a rate of 45-65 ft<sup>2</sup>/Kg at wet 0.1 mm(indicative only).
3. **FloorPrime<sup>®</sup> EP-5104** Concrete Floor Primer can be applied when the floor is surface dry. No puddles or surface water should be present. There is no need to broadcast aggregate when into this product.
4. Install as evenly as possible, and avoid leaving excessive build-up in rougher areas. Complete coverage is required to ensure there are no pinholes or voids in the finish.
5. Install **FloorPrime<sup>®</sup> EP-5104** Concrete Floor Primer before installing flooring **Floorkrete<sup>®</sup>** or other floorings.

## CLEANING:

All tools should be cleaned with suitable solvent or hot water immediately after use.

**PACKING:** 7 Kg /14 Kg Composite Pack

## STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °c.

## IMPORTANT POINTS:

1. Multichem does not recommend that grit be broadcast or otherwise introduced into FloorPrime EP Epoxy Primer. If enhanced slip resistance is desired, Floorkrete other products such as FloorScreed range may be specified to serve this function.



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2. This product is not designed to provide complete hide and color coverage. If complete hide is required, use additional Floorscreed EP Topcoats.
3. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
4. Do not thin with solvents unless advised to do so by Multichem.
5. Prepare substrate according to "Surface Preparation" portion of this document.
6. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
7. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
8. For industrial/commercial use. Products should be installed by trained personnel only.

## WARRANTY

Multichem warrants **FloorPrime<sup>®</sup> EP** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **FloorPrime<sup>®</sup> EP**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **FloorPrime<sup>®</sup> EP**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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