



# POLYMERICA

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# INCORPORATED

## POLYMERICA PRODUCT DATA

### MasterShield EFM

#### Epoxy Fill Material

#### **PRODUCT PRESENTATION**

MasterShield EFM is a two-component, 100% solids epoxy fill or leveling material. EFM is intended for use as a **binder material only**, where color and chemical resistance are not the primary concern. Colors will vary. EFM is not to be used as a finish application. Seed sand or aggregate into wet application prior to subsequent coats.

MasterShield EFM is used to produce a self-leveling slurry or troweled surfacer.

#### **INSTALLATION GUIDELINES**

**Pre-installation:** As is the case with any impermeable floor system, any concrete slab on grade to receive this product should be tested for moisture content while in the planning and estimating stages. Pre-mix each component separately. There may be a film or crusting of the A side. Mix until both components will thoroughly blend.

Product should only be installed if moisture content falls within acceptable range or MVP is used as a primer. Consult POLYMERICA Bulletin SP-C for details. For best results, condition both parts A and B at 70°F - 80°F for at least 24 hours immediately prior to use.

**Preparation:** Surface must be properly prepared and primed. Prime with EPS or preferably IEP-HV. For slurry applications, lightly broadcast primer and allow to tack. For surfacer applications, mix and apply surfacer while primer is still wet.

**Slurry Application:** Observe all precautions on MSDS and label when using this product. Premix both components with a low-speed drill equipped with a Jiffy Mixer for at least two (2) minutes. Next, blend 5 quarts of Part A (resin) with 1 quart Part B (hardener) and mix for 3 minutes.

**NOTE:** This is a 5 to 1 ratio by volume.

Add up to 25 lbs. of SLF per 1.5 mixed gallons of EFM and mix for an additional minute. Pour onto floor in ribbons and apply with a notched squeegee or cam topper. De aerate with a porcupine roller. One 1.5 gallon batch of EFM mixed with SLF will yield approximately 65 square feet at 1/16".

**Product may blush - it is recommended that while the slurry is wet, silica should be broadcast to cover and allowed to cure before proceeding with next coating.**

**Surfacer Application:** For surfacer, precondition and premix materials as instructed above, then blend 1.25 gallons of Part A (resin) with 1 quart of Part B (hardener) and mix for 3 minutes.

**NOTE:** This is a 5 to 1 ratio by volume.

Charge mortar mixer or KOL-type blender with liquids, add 150 lbs. of 1020 sand and mix until thoroughly wetted. Screed to level and finish with a steel trowel. One batch will cover approximately 50 square feet at 1/4" thickness.

**Clean-Up:** Clean skin with soap and water. Use MEK or proprietary epoxy thinners for equipment.

#### **PROPERTIES**

Because EFM is a random mixture of various components, there can be no published physical properties associated with this product.

However, each batch is *quality controlled* to ensure:

- Consistent 5 : 1 mix ratio
- Positive curing at the above ratio
- 20 minute pot life
- Minimum Hardness: 60 - 65 Shore D
- 100% solids components

See reverse for packaging and pricing.

## **SAFETY**

MATERIAL SAFETY DATA SHEETS ARE AVAILABLE FROM POLYMERICA AND SHOULD BE CONSULTED PRIOR TO USE OF THE PRODUCT.

THESE PRODUCTS ARE INTENDED FOR USE BY PROFESSIONALS ONLY. KEEP AWAY FROM CHILDREN AND THOSE NOT TRAINED IN THE USE AND POTENTIAL HAZARDS INVOLVED.

**MASTERSHIELD EFM** IS A TWO-COMPONENT EPOXY SYSTEM. PART A CONTAINS EPOXY RESINS AND BENZYL ALCOHOL. PART B CONTAINS AMINE ADDUCTS, SUBSTITUTED PHENOL, AND BENZYL ALCOHOL.

WORKERS SHOULD WEAR GLOVES, GOGGLES AND BODY COVERING CLOTHING WHEN MIXING OR APPLYING PRODUCT. CLEAN UP WITH SOAP AND WARM WATER. BE SURE TO FOLLOW ALL LABEL AND MSDS CAUTIONS.

## **PACKAGING AND PRICING**

All product is shipped in 5 gallon pails.

- Under 100 gallons            \$14.00 per gallon
- 100 to 500 gallons        \$12.00 per gallon
- Over 500 gallons           \$10.00 per gallon

All product is shipped F.O.B. from Louisville, KY.

## **COLOR CODE EXPLANATION**

Most colors are in the gray range.  
Each container may contain a different unspecified color.

## **WARRANTY**

Due to its special nature, this product carries **NO WARRANTY** except that it will catalyze when mixed according to directions.