



EP-100 is a high density, two-component, broadcast epoxy primer

## DESCRIPTION:

EP-100 is a premium, interior/exterior epoxy broadcast primer system. It is highly recommended for decorative applications to help minimize pin-holes and cracking in the applied topping. EP-100 is also recommended for underlayment applications that will be subjected to dynamic loads.

EP-100 can be applied over properly prepared moist or 5 day old "Green" concrete that is a minimum of 2500 psi. It can also be used on properly prepared epoxy coatings, steel, Terrazzo ceramic and Quarry tile. EP-100 meets USDA/FSIS guidelines and will not support the growth of Mold.

## Product Features:

- ▶ For use on Interior and Exterior substrates
- ▶ Complete broadcast system (EB-Sand provided)
- ▶ Can receive coatings in as little as 12 hours (72° F 50% RH)
- ▶ Minimizes pin-holes from off gassing & cracking in applied toppings
- ▶ Works on both moist and 5 day old "Green" concrete
- ▶ Contributes points to LEED® Certified Projects
- ▶ Can be used for Crack Repair
- ▶ Ideal for decorative projects or applications with dynamic loads
- ▶ Extremely Low VOC
- ▶ Alkalinity protection to pH 14

## SURFACE PREPARATION:

*NOTE: If the MVER per (ASTM F-1869) or the RH per (ASTM F-2170) of the substrate, exceeds that of a coating or finished floor covering that is to be applied, per it's manufacturer, use CMP V-20 Plus.*

**CONCRETE:** Shot blast, or grind substrate down to bare, clean, structurally sound concrete. Acid etching or Mastic Removers can NOT be used. All concrete substrates must have a minimum compressive strength of 2500 psi. Contact CMP Technical Dept. for procedures regarding oil contaminated substrates.

**NON-POROUS:** Shot blast ceramic and Quarry tile. Shot blast or grind Terrazzo and epoxy coatings. After preparation, remove all dust by vacuuming or mopping. Allow surface to dry completely if mopped. All substrates must be well bonded or they must be removed down to sound concrete.

**METAL:** Surface must be prepared by abrasive blasting to a White metal finish, structurally sound and free of deflection (L-360). Remove ALL residue using a dry cleaning method or wipe down with Xylene.

**CRACKS:** Non-moving cracks, and saw cuts can filled with EP-100. Thoroughly clean and chase cracks to help facilitate gravity filling; always top filled cracks immediately with EB-Sand. For larger cracks, (1/8"-1/4") mix 1 Part EP-100 with up to 1 1/2 parts EB-Sand by volume. Fill crack, top with (Neat) EP-100 and cover immediately with EB-Sand. For smaller cracks or applications needing a quick turn around, use CMP CM-10. Never fill Working cracks, expansion or isolation joints with EP-100 or CM-10. Working cracks require structural repair and joints must be honored through all applied systems.

## PRECAUTIONS:

As per OSHA requirements, use a NIOSH approved dust mask when handling or broadcasting sand. Use chemical resistant gloves and goggles when mixing or applying EP-100 and use a NIOSH /MSHA approved respirator when mixing or working in poorly ventilated areas. See MSDS for full guidelines.

**03 05 51**

Primers and Bonding Agents

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**09 96 56**

Epoxy Coatings

9

## Kit Packaging:

2.1 Gallon Premeasured Unit  
3 - 100 lb Bags EB-Sand

**Color:** White

**Shelf Life:** 1 Year in original package

## Coverage (Yield):

350 - 400 sq. ft. **per Kit**

## Number of Coats Required:

One with Full Sand Broadcast

## Approximate Application Thickness:

8 - 10 mils

## Application Temperature Range:

50° F - 85° F

## Pot Life: (70° F)

60 minutes

(Higher temps will shorten working time)

## Open to Foot Traffic:

12 Hours @ 72° F 50% RH

## Accepts Subsequent Coatings:

12 hours @ 72° F 50% RH

## Compressive Strength: (ASTM C-109)

28 Days      10,700 psi      69.0 MPa

## Flexural Strength: (ASTM C-109)

28 Days      4200 psi      24.0 MPa

## Required Tools:

Non - shed synthetic roller,  
exploded tip push broom, metal  
athletic cleats or spiked shoes  
designed for coatings applications,  
low rpm drill, Jiffy type mixing paddle

**MIXING:**

EP-100 is packaged in a combi-can unit at the proper mix ratios; only mix complete kits. Material must be 60°F minimum at time of mixing, do not thin, alter or add "Cab-O-Sil" to EP-100. Add all of part B by piercing several holes through the top and bottom of the container. Allow ALL of Part B to drain into Part A and mix thoroughly for approximately 3-4 minutes using a low speed (300 rpm) drill and Jiffy type wand. Mix until a uniform color and consistency is achieved. Avoid any mixing action that would entrain air in the EP-100 and be sure all material on the sides and bottom is thoroughly incorporated into the matrix.

**APPLICATION:**

The minimum substrate and air temp for application is 50° F. For exterior applications, protect the EP-100 from sun, rain, moisture and wind for a minimum of 6 hrs at 70° F. To ensure proper coverage, carefully mark out 350-400 sq. ft. sections for the placement of each EP-100 Kit. Substrate porosity and profile may affect coverage rate. All installers working in the material must be wearing metal athletic type cleats or spiked shoes designed for coatings applications.

*WARNING: Some substrates can be slippery.*

As soon as mixing is completed, pour out all of the EP-100 in a band pattern. Distribute the material evenly within the marked area using an exploded tip broom or notched squeegee. Work the EP-100 into the substrate using an exploded tip broom. Without delay, back roll the surface with a 1/4" nap, non-shed roller to even the coating. Immediately after back rolling (**within 2 min.**) broadcast the EB-Sand. Distribute the sand evenly at the rate of 3/4 lb. per sq. ft or 3 - 100 lb bags **per KIT**. The sand is applied in a full broadcast to rejection, (Beached). All areas must be fully covered with no bare spots. Once the EB-Sand is broadcasted, do not allow traffic until the material has cured. After 12 Hours @ 72°F 50% RH, (cooler temperature will require longer curing) thoroughly vacuum up ALL loose sand.

*Note: If for any reason the sand broadcast did not bond, sand or grind the area, clean with Isopropyl alcohol and reapply the EP-100 and EB-Sand. Exposed EP-100 will act as a bond breaker.*

**UNDERLAYMENTS & TOPPING:**

After removing ALL loose EB-Sand by vacuuming, any CMP cement based product can be applied directly over the remaining sand; no additional priming is required. As long as the surface is kept clean and uncontaminated there is virtually no maximum open time prior to the application of the CMP cement based product.

*Note: Many adhesives need a minimum of 1/8" of a cement based underlayment to absorb excess moisture. Consult adhesive manufacturer.*

**SPILLS:**

Ventilate area and contain spill. Absorb with sand, sawdust, cat litter or other noncombustible material designed for that purpose. Place in suitable containers and dispose of in accordance with local, state and federal regulations.

**CLEAN UP:**

Clean with Mineral Spirits immediately after use or by mechanical means once cured.

**Eligible LEED® credits : 1**

Waste Management - Pails (MR 2.1)  
1 Point

**Qualifying Warranties:**

1 Year, 10 Year

**Health & Safety:**

Always refer to the Material Safety Data Sheet (MSDS) prior to using this product for full Health, Safety and Handling guidelines. MSDS sheets are available by calling 215.672.6364 or you can visit [www.cmpsp.com](http://www.cmpsp.com)

For Professional Use Only

KEEP OUT OF REACH OF CHILDREN

**Manufactured By:**

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**INSTALL**