

**General Information**

**Description** Single leg, trowelable, High build, waterborne, ceramic, cementitious epoxy resurfacer used to prepare concrete in immersion to receive a lining system. Compatible with all ceramic epoxy linings

**Generic Type** Waterborne Cementitious Epoxy Mortar

**Chemical Services** With proper topcoat Mortarchem may be used for high hydrogen sulfide environments, non-potable water influent, secondary containment of dilute acids, bases and oxidizers. Contact Induron Technical Service for specific recommendations at 1-800-324-9584

**Available Colors** Concrete Gray

**Available Kit Sizes** May require the use of separately sourced sand, up to 18 lbs per 2.5 gallon kit for major restructuring

<b>A</b>	1 gallon
<b>B</b>	1 quart
<b>C</b>	13.4 lbs cementitious aggregate
<b>Total Kit Volume</b>	2.5 gallon kit

**Performance Testing**

<b>ASTM D7234 Adhesion to Concrete</b>	Greatly exceeds 400 psi cohesive strength of concrete
<b>ASTM 2794 Impact Resistance</b>	>120 in·lbs direct impact

**Compatible Topcoats**

Ceramaprime, Ceramaprime LV, Ceramaprime, PE-70, E-Bond 100, Ceramasafe 90, Perma-Clean 100, Perma-Safe 100, Ruff-Stuff 2100, TL-70, Novasafe, Perma-Clean II, EFS 707, Induramastic 85, E-Bond 100

**Surface Preparation**

All substrates clean and dry, free of dirt, oils, greases and contaminants

<b>New Concrete Parge Coat</b>	Abrasive blast, power tool or water jet as per SSPC SP-13 to an ICRI CSP 3 or greater. Apply specified topcoat
<b>Existing Concrete Resurfacing</b>	Abrasive blast, power tool or water jet as per SSPC SP-13 to an ICRI CSP 4 or greater. Apply specified topcoat

**Shelf Life & Storage**

2 year shelf life parts A and B, Store long term between 50 and 90°F, Recommend heating material to 80-85°F in the 24 hours prior to application

# Mortarchem

## Application Information

### Film Thickness

Apply at 1/32-1/2" wet film thickness, or until complete coverage or desired smoothing of underlying concrete

### Coverage Rate

64 ft<sup>2</sup> per kit at 1/16"  
16 ft<sup>2</sup> per kit at 1/4"

### Application Instructions

Apply to horizontal and vertical surfaces using a trowel, gravity fed hopper gun, rotor-stator pump or peristaltic spray pump. Surface may be smoothed with a wetted rubber float shortly after application to wall. May be applied in multiple lifts where needed. Supplied as a low viscosity mixture for parge coating. For average job film thickness beyond 1/8" add coarse sand to Mortarchem according to the following table:

Thickness	Sand Addition Rate	Notes
1/16-1/4"	2-4 quarts per kit	Sand level varies based on conditions, application method and applicator preference
1/4-1/2"	4-6 quarts per kit	
>1/2"	6 quarts + 2 quarts pea gravel	Horizontal Surfaces Only

### Mix-Ratio

Combine provided liquids with 13.4 pounds of included aggregate and any added sand, do not mix partial kits, do not add water

### Pot Life

50°F	75°F
1.5 hrs	1 hr

### Thinning

Do not thin, cleanup with water

### Conditions

All concrete and ambient temperatures must be ≥50°F

	minimum	maximum
Substrate temperature	50°F	140 °F
Material temperature	60°F	80°F
Humidity	0% RH	95% RH

### Cure

	50°F	75°F	90°F
dry to touch	8 hrs	4 hrs	2 hrs
dry to topcoat minimum	24 hrs	12 hrs	6 hrs
full properties	45 days	30 days	30 days
cured for immersion service	14 days	7 days	5 days

## Reference

### Physical Properties

HAPS	0
VOC	82 g/L
volume solids	100%
weight solids	100%

### Links

[Safety Data Sheet](#)  
[Ceramaprime Tech Data](#)  
[Perma-Clean 100 Data Sheet](#)  
[Ceramasafe 90 Data Sheet](#)