



Revised May 2017

FILL-CRETE GRAY

TECHNICAL DATA SHEET

TWO COMPONENT GRAY POLYMER CEMENTITIOUS COATING



RECOMMENDED APPLICATIONS

Effective on applications such as...

- ◆ Pool Decks
- ◆ Driveways
- ◆ Walkways
- ◆ Patios & Lanais
- ◆ Sidewalks
- ◆ Showrooms
- ◆ Commercial & Residential
- ◆ Many other uses may be acceptable

CHEMICAL RESISTANCE (ASTM D2299)

*Sulfuric Acid, 10%.....	Unaffected
*Calcium Hydroxide, 10%.....	Unaffected
*Sodium Hydroxide, 10%.....	Unaffected
*Citric Acid, 10%.....	Unaffected
*Lactic Acid, 10%.....	Unaffected
*Gasoline.....	Unaffected
**Hydrochloric Acid, 10%.....	Unaffected
**Sodium Hydroxide, 10%.....	Unaffected
**Mineral Spirits.....	Unaffected
**Methyl Alcohol.....	Unaffected
**Lubricating Oil.....	Unaffected
***Sodium Hydroxide, 10%.....	Unaffected
***Citric Acid, 10%.....	Unaffected
***Lactic Acid, 10%.....	Unaffected
***Gasoline.....	Unaffected

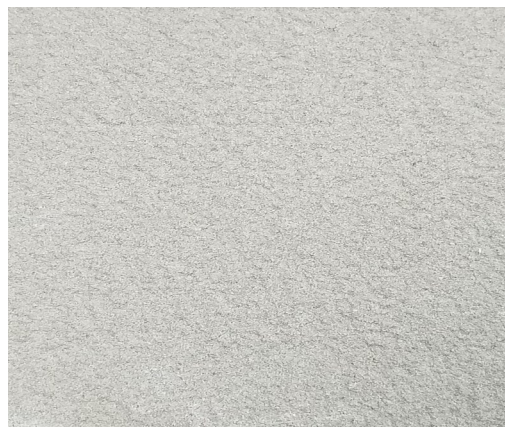
- * Immersion time - 5 minutes
- ** Contact time - 15 minutes
- *** Immersion time - 7 hours

DESCRIPTION

Marbelite Fill-Crete is a superior, high-strength, gray polymer cement coating, designed for hand-troweled, squeegee, and spray texture applications. This product is ideal for base-coating and filling in low areas, to repair pitted or damaged concrete. **Fill-Crete** offers higher strength properties than conventional concrete, and is more flexible and durable making it the perfect choice for commercial and residential installations, interior and exterior.

BENEFITS/FEATURES

- ◆ High strength, durable, long lasting cement overlay for concrete surfaces
- ◆ Inexpensive concrete repair product
- ◆ Slip resistant, textured surface
- ◆ Ease of use with a variety of application techniques
- ◆ Stain resistant against mildew, oils, rust, and tire marks when clear sealed with one of Marbelite's high grade sealers.
- ◆ Low maintenance
- ◆ Color pigment can be added to create a variety of darker shades



SPECIFICATIONS

Test Thickness:	6.0 mm (0.236 in.)
Test Density:	96.8 lbs./ft ³
Thermal Conductivity (ASTM C 518-76):	0.290 (W/m K)
Thermal Resistance (ASTM C 518-76):	0.12 Btu/(hr ft ² °F/ft)

Comprehensive Strength (ASTM C-109):			
1 Day	3900 psi	7 Days	5100
3 Days	4800 psi	28 Days	5720 psi

Fire Retardant Test:
UBC Std. 32-7, UL 790, ASTM E108 Class A

All tests were performed at 75° F. (24° C.)

TECHNICAL INFORMATION

Set Time (under normal drying conditions)	1 hour
Cure Time—Heavy Traffic	72 hours
Application Temp	40°F - 90°F
Pot Life	30 - 60 minutes
Coverage @ 1/8" (varies, depending on thickness)	50 sq. ft. / 50 lb. bag
Dry Appearance	Gray Cementitious Finish

Testing is accordance with procedures outlined in EPA Method 24, "Volatile Organic Content VOC of Paints and Related Coatings". The solids content was determined in accordance with ASTM D 5095 and the VOC was calculated in accordance with ASTM D 3960.

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Fill-Crete

INSTRUCTIONS FOR USE

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 part acid to 4 parts water. Thoroughly rinse or pressure wash the surface clean to remove all acid solution. Note, it is recommended to test the pH level of the surface after rinsing and neutralize if necessary, using ammonia or baking soda and water.

Air temperature should be no less than 40°F and not exceed 90°F; substrate temperature should be no less than 50°F and not exceed 90°. Applying Marbelite cements in extreme heat can cause early set-up and insufficient bond. Applying Marbelite cements in extreme cold can cause resin additives to freeze and improper curing.

MIXING: General use: Add 2.5 quarts of *Marbelite Polymer Bonding Resin Concentrate* and 2.5 quarts of clean water to a clean 5 gallon pail. Slowly mix in one 50 lb. bag of **Fill-Crete** using a drill with a mud mixing paddle attached. An extra 1 quart of clean water may be added for spray or squeegee applications. **For thin base coat:** mix 2.5 quarts of *Marbelite Polymer Bonding Resin Concentrate* and 2.5-3.5 quarts of clean water, then add 50 lbs. of **Fill-Crete**. Add hot weather additive (*Marbelite Retarder*) as required to prevent early setting. **For filling low areas or thicker base coats:** use 2.5 quarts *Marbelite Polymer Resin Concentrate* with NO RETARDER and 2 quarts of clean water. **For skip trowel application:** mix 2.5 quarts of *Marbelite Polymer Bonding Resin Concentrate* with 2-2.5 quarts of clean water, then add 50 lbs. of **Fill-Crete**. **NOTE:** Mix and apply quickly, especially during hot weather conditions. When applying thicker than 1/4", use MINIMUM quantity of water to minimize possible shrinkage cracks. This rule applies to all cementitious mixes.

COVERAGE RATE:

Thickness:	1/16"	3/32"	1/8"	1/4"
Coverage:	100 sq. ft.	75 sq. ft.	50 sq. ft.	25 sq. ft.
Skim/Base Coat:	200 sq. ft. per bag			

*Coverage rates may vary depending upon thickness, texture, and application method.

APPLICATION: Fill-Crete can be sprayed, troweled, or squeegeed depending on desired finished product. **Spray** using an air compressor and hopper gun at as low as 8 psi (for heavy knockdown) and up to 30 psi (for a finer texture). **For troweled or squeegee applications:** pour mixed material on prepared concrete surface, then spread with trowel or squeegee of choice to desired thickness and texture. Allow a minimum of 24 hours dry time before coloring and/or clear sealing the surface. Clear seal with *Marbelite Crystal Clear 1000* or Stain with *Marbelite Stain Seal 500*, color-washing may be done with Marbelite's tinting system.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application.

PRECAUTIONS AND LIMITATIONS

- ◆ This product will not freeze during storage, however, allow temperature to rise to 40°F prior to application.
- ◆ This product requires the use of liquid polymer resin additive to function properly.
- ◆ It is recommended to use only *Marbelite Resin Concentrate*, *Marbelite Resin Concentrate-No Retarder*, and/or *Mar-Flex* with this product.
- ◆ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ◆ Avoid prolonged contact with skin, and avoid splashing in eyes. Flush affected areas thoroughly with water to remove.
- ◆ All new concrete must be cured for at least 28 days prior to application.
- ◆ Store in a dry environment at room temperature either on a shelf or pallet (not directly on the concrete), do not allow bags to get wet.
- ◆ When mixing this material, wear proper protective-wear such as a respirator and goggles. Avoid inhaling sand and cement particles.
- ◆ Do not allow mixed product to dry in unwanted locations.
- ◆ If applied thicker than 1/4" in a single application, shrink-cracks may occur.

CLEAN UP: Water clean-up.

PRODUCT REMOVAL: Dried, cured material may be removed by using a diamond grinding method, or similar mechanical action.

SHELF LIFE: Up to one year from manufacture date in its original, unopened container, stored in a dry environment.

PACKAGING: Available in 50 pound bags.

SPECIAL NOTES: Always read all technical information, label, and SDS (MSDS) prior to use. This information can be found online or by calling customer service at the number below.

LIMITATION OF LIABILITY

Marbelite International Corp, "Seller" warrants that if any goods supplied prove to be defective in workmanship or material, that Seller shall replace them or refund their purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for its intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Seller be liable for incidental, consequential, or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Seller for any claim arising out of the use or sale of defective product shall be for the User's purchase price.

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