



# MAR-FLEX

Revised May 2017

## TECHNICAL DATA SHEET

### ELASTOMERIC POLYMER BONDING ADDITIVE

#### DESCRIPTION

**Marbelite Mar-Flex Elastomeric Bonding Additive Concentrate** is a specially formulated polymer that may be added to *Marbelite bag mixes* or any cementitious bag mix to produce a coating with superior elongation and flexibility, and to increase bond strength.



#### BENEFITS/FEATURES

- ◆ Improved adhesion in conjunction with *Marbelite Spray Texture*.
- ◆ Improved flexibility to reduce cracking in cementitious coatings.
- ◆ Flexible coating & waterproofing membranes
- ◆ Improved adhesion on various different substrates.
- ◆ Cementitious waterproofing membranes
- ◆ Improves adhesion of indoor & outdoor wall paints and plasters.

#### RECOMMENDED APPLICATIONS

Effective on applications such as...

- ◆ **ADDITIVE:** **Mar-Flex** was originally designed as an additive to the *Marbelite Spray Texture* to increase flexibility, impact resistance, and improve bond strength. It can be substituted, up to 50%, for the appropriate *Bonding Resin*.
- ◆ **PRIMER:** **Mar-Flex** is recommended as a primer coat for metal surfaces prior to application of *StyroCrete*®.
- ◆ **GROUT:** **Mar-Flex** is an excellent filler for use in routed out cracks when mixed full strength with *Marbelite Spray Fine*. Note: 1 to 3 oz. of *Marbellard Retarder* must be added to the mix to prevent premature set.
- ◆ **SEALER:** **Mar-Flex** is an excellent sealer for new concrete to prevent contaminants such as calcium salts from causing discoloration or delamination of a surface coat. It also helps to minimize or eliminate surface porosity.
- ◆ Many other uses may be acceptable.

#### TECHNICAL INFORMATION

Solids/Active Content, Percentage by weight	58% +/- 1%
Nature	Aqueous copolymer of an acrylic ester and styrene
pH (ISO 1148), %	7.0 - 8.5
Density (ISO 8962), lbs. / gal.	8.76 +/- .01
Water absorption (24 hr. Immersion), %	5 - 10
Mechanical strength, elongation at break, %	> 2,500
Resistance to aging	Good
Resistance to light	Good
Dry Appearance	Clear, transparent
Viscosity (cps)	400

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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# Mar-Flex

## INSTRUCTIONS FOR USE

**SURFACE PREPARATION:** Concrete surface must be cleaned and free from dust, dirt, wax, grease, oil, water, and all other contaminants that could prevent adhesion.

Substrate and air temperature must be no less than 40°F and not exceed 90°F. If applied outside these limits, the sealer may not achieve adequate film formation and may result in product failure.

**MIXING:** **Mar-Flex** may be used as-is and does not require any additives. When used as a primer, **Mar-Flex** may be diluted 3 parts water to 1 part **Mar-Flex**. It is not recommended to dilute **Mar-Flex** when used with *Marbelite cements*. Shake or stir the contents of the container prior to use.

**COVERAGE RATE:** 5 Gallon pail modifies 5 - 10 (50 lb.) bags depending on the amount flexibility desired.  
\*Coverage rates vary depending upon method of application, product use, and desired flexibility.

**APPLICATION:** *As a primer:* apply **Mar-Flex** with a roller, brush, or airless sprayer. Allow to dry a minimum of 1 hour, depending on weather. For maximum flexibility when used with *Marbelite cements*, add 2.5 quarts of **Mar-Flex** and approximately 2.5 - 3.5 quarts of potable water to one 50 lb. bag. *Marbelite Retarder* may be required to prevent early setting.

**For use with StyroCrete®:** add between 8 - 32 oz. of **Mar-Flex** to *Marbelite StyroCrete®* bag mix depending on desired flexibility. Reduce *Styro Bonding Resin* by the amount of **Mar-Flex** added. The recommended amount of total polymer is 2.5 quarts.

**For use with StyroCrete® One Component:** add between 8 - 32 oz. of **Mar-Flex** to *Marbelite StyroCrete® One Component* depending on desired flexibility. Reduce the water added accordingly. The recommended amount of total liquid is 5 quarts.

**Mar-Flex** is great for pool and patio concrete decks with spider web cracks.

**PLEASE NOTE:** 1 to 3 oz. of *Marbelite Retarder* must be added to the mix to prevent premature set. 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 freeze during storage, store at temperatures between 40°F and 100°F.
- ◆ All new concrete must be cured for at least 28 days prior to application.
- ◆ This product was designed for use in conjunction with other products.
- ◆ Avoid excessive build and puddling.
- ◆ Use with adequate ventilation.
- ◆ Abide by recommended safety guidelines.
- ◆ It is recommended to test this product prior to using on entire application.
- ◆ DO NOT TAKE INTERNALLY.
- ◆ MAY CAUSE EYE AND SKIN IRRITATION.

**CLEAN UP:** Use soap and water. Dispose of containers in accordance with local and federal regulations.

**PRODUCT REMOVAL:** Refer to coating data sheet.

**SHELF LIFE:** Up to one year from manufacture date in its original, unopened container, stored at room temperature.

**PACKAGING:** Available in 1 gallon and 5 gallon containers.

**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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