

## STUCCOMAX™

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| <b>Description</b> | <b>StuccoMax™</b> is a truly green non Portland cement base exterior wall finish coating. Its ultimate high strength is achieved in less than 24 hours and rapid set qualities enable an optional finish coat to be applied within a single work day. <b>StuccoMax™</b> utilizes fiberglass mesh to further enhance its inherent abuse resistant qualities in thin applications. <b>StuccoMax™</b> leads the industry in innovation when low embodied energy, high performance and cost effectiveness is required |
| <b>Uses</b>        | <b>StuccoMax™</b> is applied to exterior walls in residential, commercial and industrial insulated concrete construction (ICF) and other building systems that utilize expanded polystyrene (EPS).  |
| <b>Advantages</b>  | <b>StuccoMax™</b> sets and cures in a fraction of the time of conventional Portland cement products providing quick job turn around. LEED points are also easily achieved where none currently exist in this area.  |

## JOBSITE CONDITIONS

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| <b>Temperature</b>     | <b>StuccoMax™</b> shall be applied in ambient air temperatures above 45°F and rising and during the installation.<br><br>Do not apply <b>StuccoMax™</b> to substrates that are below 45°F or that are wet, frozen or contain frost.<br><br>Do not apply <b>StuccoMax™</b> during inclement weather or when inclement weather is inevitable unless appropriate weather protection is used. |
| <b>Direct Sunlight</b> | Whenever possible, avoid installing <b>StuccoMax™</b> in direct sunlight. Direct sunlight reduces working time and may promote premature surface hydration. Shade the staging if necessary to avoid sun/shade lines from the staging itself or other nearby objects.  |

## ACCESSORIES AND RELATED MATERIALS

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| <b>Sealants</b> | Perimeter seals around window and door frames and all other through wall penetrations shall be designed for 50% elongation and minimum 25% compression. Appropriate sealant shall be selected by the architect.<br><br>Perimeter seal joints shall be a minimum width of ½” and utilize a closed-cell polyurethane foam backer rod. Joint design and associated preparation shall be based upon the sealant manufacturer’s recommendation. |
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**Flashing** Flashing around windows, doors chimneys, transitions between walls and roof and at other points specified shall be continuous and watertight. Flashing shall be designed and installed to prevent water infiltration behind the **StuccoMax™** system.

**Joints** Expansion joints are installed at all areas where movement is anticipated and at all building structural breaks. Joint placement shall be specified by the architect.

## ICF WALL SYSTEM

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**Preparation** Rasping is necessary to remove potential bond breakers and to plane profile irregularities. All substrates must be clean, dry and sound with planar irregularities less than ¼" within a 4' radius.

Repair damage, dents and voids in the EPS substrate with an appropriate expanded insulation prior to applying **StuccoMax™**. Do not attempt to make repairs with **StuccoMax™** or anything other than expanded insulation.

Do not install **StuccoMax™** on wet or frozen surfaces.

**Inclined Surfaces** **StuccoMax™** shall be installed on inclined surfaces with a minimum of 6" vertical rise in 12" horizontal run. The maximum slope run shall be 12". **StuccoMax™** is not recommended for installation on inclined areas not meeting this criterion.

## MIXING

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**Package** **StuccoMax™** packaged in 75# moisture resistant paper bags. Material volume exceeds the capability of a standard five gallon bucket so mixing must be done in a vessel capable of holding ten gallons of material.

**Water** Mixing water must be potable and from a municipal source. Water temperature should be considered and adjusted if necessary.

**Mixing** Pour 4.5 quarts of water into the mixing bucket and begin to add **StuccoMax™**. Begin mixing while slowly adding in remaining **StuccoMax™** bag contents. Mix time is approximately 3 minutes or until a smooth lump free consistency is met. Small amounts of water may be added to adjust material consistency if necessary.

**Equipment** Drills with typical plaster mixer attachments may be used. Hand held ergonomically engineered mixers are also acceptable.

**Pot Life** **StuccoMax™** bucket life is approximately 20 minutes. Plan the installation so that each batch can be conveniently applied within this time frame. Re tempering batches that are beginning to set is strongly discouraged.

### APPLICATION

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#### ***Hawk & Trowel***

**StuccoMax™** may be hand applied like most conventional plaster material. Efficient application practice is recommended to ensure that fresh material is used.

#### ***Spraying***

**StuccoMax™** may be spray applied using conventional plaster delivery equipment. Ensure continuous material spraying for best results. Wash the pump and hoses during work breaks.

#### ***Application***

A first 1/16" coat of **StuccoMax™** is direct applied to the EPS and worked flat. Mesh is embedded into the first coat working material through while ensuring that the mesh is flat and free of wrinkles. Overlap adjoining mesh by a minimum of 2.5". A second coat of **StuccoMax™** is immediately applied over the mesh to the specified thickness. This is a true one coat double pass method that is typically results in a 3/16" overall thickness.

#### ***Mesh***

Mesh gauge is specified by the architect per application. Mesh gauge is increased as project abuse resistance requirements increase. Categories include:

1. Standard – 4.5 ounce per yd
2. High – 11 ounce per yd

Mesh gauge 4.5 and 11 ounce per yd are overlapped on all edges a minimum of 2.5".

#### ***Trowel Timing***

Working time depends on material viscosity, temperature and humidity. Generally, the material is easily applied in approximately 20 minutes. Trowel lines and application irregularities may be flattened within 20 minutes of the application. Water troweling will not harm **StuccoMax™**.

Do not over trowel as surface blistering may occur. Plan to improve the wall profile in the relative short term.

## GENERAL

### *Clean Up*

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All mixing and finishing equipment must be thoroughly washed immediately after use. Potable water is sufficient for cleaning.

### *Curing*

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Ensure that **StuccoMax™** is allowed to cure in temperatures within the application temperature range. Moist curing for 2 hours is recommended.

### *Coverage*

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Each 75 lb. (22.6 kg) of **StuccoMax™** covers approximately ( ? )sq. ft. at a thickness of 3/16 in.

### *Storage*

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**StuccoMax™** bags should be stored in a secure, indoor and dry space. It is important that bags maintain their seal and are free of puncture or tear.

### *Shelf Life*

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When properly stored in original sealed packaging, **StuccoMax™** has a shelf life of one year from the date of manufacture.

### **Tech Support**

Contact GigaCrete, Inc. at (702) 643-6363 (PST) or (508) 294-8249 (EST)

### **Warning!**

Keep out of reach of children.