

## PRODUCT DATA SHEET

# Jahn M60 - Stucco / Plaster

- Interior Plaster
- Exterior Stucco

These single-component, cementitious plasters are engineered for use on new or existing brick or stone substrates. Jahn M60 can be altered to adhere to block or concrete (Contact Cathedral Stone for more details). Jahn M60 may be applied as a ground coat or finished system in thickness ranging from 1/4" to 1 1/2". The Jahn System eliminates the need for the traditional three-part application process (brown, scratch, finish). M60 is available in both interior and exterior formulations with factory custom coloring available. The plaster exhibits a superior chemical bond to prepared substrates, without the addition of latex or acrylic bonding agents or additives, and performs in situations where previous methods and materials have failed due to repeated water and salt saturation. M60 is water based, thus environmentally and user safe with no solvent clean up or disposal problems.

### **FEATURES AND BENEFITS**

- **Single-Component:** Mixes with water only, improving quality control and consistency of application.
- **Compatible Formulations:** Compatibility of physical properties ensures that the plaster and substrate react to the environment in the same way.
- **Contains No Latex or Acrylic Bonding Agents:** It protects the substrate by allowing salts, water vapor, and liquid water to reach the surface, preventing failure due to salt expansion or freeze/thaw cycles.
- **Tenacious Adhesion:** Strong bonding capabilities without relying on synthetic bonding agents.
- **Water Based:** Environmentally and user safe. No solvent clean up or disposal problems.
- **Custom Colored Upon Request:** Closely matches existing masonry. Excellent for repairs or as a complete coverage system. Choose from Standard or Custom Colors.

### **APPLICATION PROCEDURES**

#### **Surface Preparation**

Surfaces to receive M60 must be sound and free of all dust, dirt, grease, laitance and/or any other coating or foreign substance which may prevent proper adhesion. Remove all loose or friable mortar before application of Jahn M60. The sides of the repair area should be "square cut" with edges and a minimum of 1/4" depth. Wash the prepared surface with clean water and a bristle brush. All necessary joint repairs should be completed with Jahn M110 Pointing Mortar 21 days prior to the application of Jahn M60.

**Exposed Ferrous Metals:** In the event that ferrous metal reinforcement (re-bar, threaded rod, etc.) is exposed within the repair area or repairs are adjacent to ferrous metal jambs, lintels, anchoring systems etc., the Corotech V160 Surface Tolerant Epoxy Mastic must be applied to all properly prepared ferrous metal surfaces before repairs are made. Refer to the Technical Data Sheets within Cathedral Stone's Product line for proper preparation and use of the Corotech V160 Surface Tolerant Epoxy Mastic.

#### **Mixing**

The mixing ratio is approximately 4 parts powder to 1 part water by volume, depending on temperature and humidity. (This ratio can be altered as needed to suit local conditions.) Small quantities may be mixed manually, stirring until the plaster is thoroughly mixed. Large quantities should be mixed for a minimum of five minutes using a slow speed drill (400 -600 rpm) equipped with a Jiffler-type mixing paddle. The more thoroughly mixed the material becomes, the easier it is to apply and the better the quality of the finished product. The working time will vary, depending upon wind, temperature, and humidity. **Using excessive water in the mixture may affect the color of the repair.** Bulk mixing may be done in a mortar mixer, paying strict attention to proper quantities of water and material used.

#### **Application**

Moisten the substrate using clean water. (The substrate requires intensive presoaking prior to application of Jahn M60.) Thoroughly presoak until saturated (Saturated Surface Dry or SSD). This prevents the stucco from drying too quickly. If the surface is allowed to dry out before applying M60, this step must be repeated. This is critical. **It is our recommendation that only experienced stucco or plastering contractors, or trained Jahn Stucco applicators use this material. Without knowledge of sufficient substrate saturation, the substrate might draw the moisture out of the Jahn M60 too quickly, and bond will not be achieved.**

The material can be applied in one application or successive lifts if desired. If applying Jahn M60 in lifts, additional surface preparation is required between lifts. Brush the surface of the initial coat to remove the cement skin formed during troweling. This will open the pores before an additional layer of material is applied. No waiting period is required between applications.

While the plaster is still workable, wipe the surface with a dry sponge in order to prevent surface map cracking of the material. Never use a damp sponge for final finishing because it can change the color.

#### **Curing**

##### **Traditional Cure**

Periodically mist M60 repairs using clean water for at least a 72-hour period. The timing for initial water misting will vary with ambient conditions. Hot, dry conditions may require misting within 30 to 60 minutes. Cooler, damp conditions may require waiting several hours before beginning the curing process. Mist several times a day. Should access to the repairs be impossible over a period of time, plastic may be used to cover them temporarily. The application of plastic, however, does not remove the need for normal curing techniques.

##### **Self-Cure**

No curing is necessary when masonry surface temperature is 85°F or lower. When working on surface temperatures above 85°F, follow the Traditional Cure procedures outlined above.

#### **Clean Up**

Remove uncured material from the perimeter of the repair before it dries using clean water and a rubber sponge. Repeat several times with clean water to prevent a halo effect (staining of adjacent masonry). Cured plaster may only be removed chemically or mechanically.

### **SAFETY REQUIREMENTS**

It is recommended that safety goggles, gloves, and a dust mask equipped with P-2 filters (or equivalent) be worn for protection while mixing.

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**Limitations**

Do not apply Jahn M60 to a frozen or exceedingly hot substrate. The applied M60 must be protected from extreme heat, freezing, excessive wind, direct sunlight, and rain. Ambient temperature range should be 40° F to 90° F with low to average humidity.

Do not add bonding agents to Jahn M60 or use them as surface preparation materials.

Minimum thickness of M60 application is 1/4".

**PACKAGING & COVERAGE**

A 5 gallon plastic pail contains approximately 33 lb. of material. This will cover 0.5 cubic feet (12 sq. feet at 1/2" thickness).

**STORAGE & SHELF LIFE**

Store material in a dry area away from direct sunlight. Ambient storage conditions should be in the range of 40°F to 90°F with low to average humidity. Average shelf life is 2 years in original, unopened packaging.

**TECHNICAL DATA**

(Jahn M60)

<b>LIQUID/PLASTIC PHASE</b>	
Ratio water dry material	3.8 to 4.2 fl. oz./lb.
Volume M60 in inches 3 per lb dry material	15 fl.oz/lb.
<b>HARDENED PHASE</b>	
Compressive strength, dry	800 to 1100 psi
Tensile bending strength, dry	200 to 250 psi
Bonding strength	145 to 290 psi
Linear coefficient of thermal expansion	0.1E-06 to 0.2E-06 (in/inches) 9F
Hydraulic coefficient of expansion (%)	0.2 to 0.3
Modulus of elasticity	1090 to 1150 ksi
Specific gravity - Acoustics (A) **	1.2

**WARNING**

Not for internal consumption. Keep out of reach of children and animals. Consult Material Safety Data Sheet (MSDS) for specific information..

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