

## PRODUCT DATA SHEET

# Jahn M80 - Anchor Setting Mortar

This single-component, cementitious, non-shrinking mortar is designed for securing anchors, tie rods and bolts in new or existing masonry structures. Jahn M80 is mineral based and maintains a high pH, protecting anchors from rust. It is excellent for pinning or anchoring bolts and structural steel. M80 is vapor permeable and is resistant to the destructive effects of repeated freeze-thaw cycle.

### 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 mortar and natural 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.
- **Factory Controlled:** No field chemistry resulting in product variation.
- **Highly Resistant to Carbonation:** Superior long-term, reinforcing steel protection.

### APPLICATION PROCEDURES

#### Surface Preparation

All holes to be filled with M80 must be free of all dust, dirt, grease, oil, laitance or any loose material, which could prevent proper adhesion. Clean dust out of holes prior to application.

All anchors must be free of rust. Treat anchors with protective coating to prevent rusting. Apply mortar only after coating is completely dry.

#### Mixing

The mixing ratio is approximately 5 parts powder to 1 part water by volume, **depending on temperature and humidity**. More water may be required as ambient temperature rises. Mix manually. Normal mixing time is approximately five minutes, or until a lump-free consistency is achieved. The working time will vary, depending upon wind, temperature and humidity.

#### Setting Anchors

Moisten the drill holes using clean water prior to applying M80. **If the holes are allowed to dry out, this step must be repeated.** This is important. Pour the mortar into the drill hole so that it is approximately half full. Insert anchor and tap it several times in order to remove any voids or air pockets. Fill the remainder of the cavity with mortar. Anchor should be able to withstand a full load in approximately two days.

#### Curing

##### Traditional Cure

Periodically mist M80 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.

### 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.

### Limitations

- Do not apply Jahn Mortar to a frozen or exceedingly hot substrate. The applied mortar 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 Mortar or use them as surface preparation materials.

### 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

### PACKAGING AND COVERAGE

A 5-gallon plastic pail contains approximately 44 lb. of material. Mortar color is cement gray. This will cover 0.5 cu. ft. (12 sq. feet at 1/2" thickness)

### STORAGE AND 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 M80 -Anchor Setting Mortar

LIQUID/ PLASTIC PHASE	
Ratio water/dry material	2.1 to 3.0 fl. oz./lb.
Volume mixed mortar M80 in inches/3 per pound	8.3 fl. oz./lb.
Specific gravity	1.8 to 1.9
HARDENED PHASE	
Compressive strength (approx.)	4200-5000 psi
Specific gravity	1.8 to 1.9

### WARNING

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

Notice: The information contained herein is based on our own research and the research of others, and it is provided solely as a service to help users. It is believed to be accurate to the best of our knowledge. However, no guarantee of its accuracy can be made, and it is not intended to serve as the basis for determining this product's suitability in any particular situation. For this reason, purchasers are responsible to make their own tests and assume all risks associated with using this product.