



TECHNICAL DATA SHEET

FILE UNDER DIVISION 4

1. PRODUCT NAME

BONSTONE®
HRM™
Historic Restoration Mortar

2. MANUFACTURER

Bonstone Materials Corporation

3. PRODUCT DESCRIPTION

A two-component, lime-based, latex modified mortar for the restoration of historic masonry structures.

Basic Uses:

- Surface repairs to historic stone and masonry structures.
- Skim coating vertical stone
- Designed for durable aesthetic repairs
- Easy to mix and apply to your surface
- Designed as a slurry or knife grade application

Limitations:

Use on oil, grease, and coating free substrates.

4. TECHNICAL DATA

(see next page)

5. INSTALLATION

Surface Preparation & Use:

Use gloves, wear eye protection, and avoid skin contact. When grinding cured materials, wear a dust mask. Mix only the amount of material which can be used in 15 minutes. Clean uncured HRM Historic Restoration Mortar from tools with hot, soapy water. Remove cured material mechanically.

Recommend testing an area of the structure before applying to large sections.

Mixing instructions:

All materials should be at or above 55°F. Priming: For best adhesion, do not apply product to dry surfaces- light misting is appropriate. MIX PART B WELL BEFORE USING. Combine the two ingredients of powder and liquid until a slurry or knife grade desired consistency is obtained. Determine the powder to liquid proportion that works and handles the best for your particular application. Use a straight edge trowel to spread the material. Lightly mist the repair mortar with clean water immediately after application. Allow to cure before carving, grinding, or shaping.

Temperature dependency:

Temperature will affect the working properties of the material. Minimum temperatures are above 50F.

6. AVAILABILITY

Packaging and storage:

BONSTONE® HRM Historic Restoration Mortar is packaged in 7 pound kits (5 lbs part A powder and 2 lbs latex binder part B); and also in larger 63-pound kits.

Shelf life is approximately one year if kept in unopened cans in a dry area at 75°F.

7. WARRANTY

This warranty is limited to replacement of defective material and freight charges to destination only. Bonstone Materials Corp. is not responsible for consequential damages.

8. MAINTENANCE

Designed for application in areas inaccessible to maintenance procedures.

9. TECHNICAL SERVICE

- specifications for various applications
- specification writing dept. for unique application

4. **TECHNICAL DATA** **BONSTONE™ HRM**

Cured Properties:

Initial set time at 75°F: 0.5--1 hour
Full cure time at 75°F: within 24 hours

STRENGTH:

Compressive: 1433 psi
Flexural: 494 psi

MODULUS:

Flexural: 61,246 psi

Moisture Vapor Permeability:

ASTM C580 55.2 perms

Shrinkage:

ASTM C157 0.24%

Application Thickness:

The Historic Restoration Mortar(HRM) is recommended for maximum thickness of 1 inch per application. For a thickness greater than 1 inch, multiple layering applications are recommended.