1. Product Name
Monokote® MK-6®/HY® and MK-6®s Structural Steel Fireproofing

2. Manufacturer
Grace Construction Products
62 Whittemore Avenue
Cambridge, MA 02140
(866) 333-388 (3726)
(617) 876-1400
Fax: (617) 498-4311
www.graceconstruction.com

3. Product Description
BASIC USE
Monokote® MK-6/HY® and MK-6s are single component, spray applied, mill-mixed fireproofing plasters. MK-6/HY and MK-6s are used on structural steel columns, beams, concrete and fluted decking to provide up to 4 hours of fire protection. With the application of Spatterkote® SK-3, ratings of up to 3 hours can be obtained on cellular flat-plate decking.

Monokote MK-6/HY and MK-6s afford the same level of fire protection at identical protection thicknesses. Specifying Monokote MK-6 allows the subcontractor to select the product that provides the most efficient fire protection for the specific project conditions.

COMPOSITION & MATERIALS
Monokote® MK-6/HY® and MK-6s are cementitious factory-mixed products. Only the addition of water is required on the jobsite to form a cohesive, pumpable slurry.

LIMITATIONS
Monokote MK-6/HY and MK-6s should not be used in areas directly exposed to weather. Monokote Z-106 and Z-146 are recommended for exposed applications, high traffic areas subject to excessive physical abuse, and industrial spray applied fireproofing applications. With proper substrate preparation, Monokote Z-146 is approved for exterior use.

4. Technical Data
APPLICABLE STANDARDS
ASTM International
- ASTM E937 Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRMs) Applied to Structural Members
- ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

Tests developed by the City of San Francisco, Bureau of Building Inspection (SF)
- Abrasion Resistance Test Method
- Impact Penetration Test Method

PHYSICAL/CHEMICAL PROPERTIES
Monokote MK-6s and MK-6/HY Structural Steel Fireproofing exhibit the properties indicated in Table 1.

FIRE RATING
Underwriters Laboratories, Inc. (UL), fire ratings are provided in Table 2.

5. Installation
PREPARATORY WORK
Steel must be free of oil, grease, loose mill scale, paint or any other substance that can impair proper adhesion. Where possible, all clips, hangers, supports, sleeves and other attachments should be in place prior to the application of the fireproofing.

<table>
<thead>
<tr>
<th>Property &amp; test</th>
<th>Recommended specifications</th>
<th>Laboratory test values</th>
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</thead>
<tbody>
<tr>
<td>Bond strength (average), ASTM E736</td>
<td>&gt; 200 psf (10 kPa)</td>
<td>339 psf (16 kPa)</td>
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<tr>
<td>Compressive strength, ASTM E761</td>
<td>&gt; 1200 psf (57 kPa)</td>
<td>1440 psf (69 kPa)</td>
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<tr>
<td>Air erosion, ASTM E859</td>
<td>0.09 g/ft² (0.0 g/m²)</td>
<td>0.00 g/ft² (0.0 g/m²)</td>
</tr>
<tr>
<td>Bond impact, ASTM E760</td>
<td>Does not crack, spall or delaminate</td>
<td>Pass</td>
</tr>
<tr>
<td>Deflection, ASTM E759</td>
<td>Does not crack, spall or delaminate</td>
<td>Pass</td>
</tr>
<tr>
<td>Surface burning, ASTM E84</td>
<td>Flamespread 0</td>
<td>Flamespread 0</td>
</tr>
<tr>
<td>Corrosion, ASTM E937</td>
<td>Does not promote corrosion</td>
<td>Does not promote corrosion</td>
</tr>
<tr>
<td>Fungi resistance, ASTM G21</td>
<td>No mold growth</td>
<td>Pass (no growth)</td>
</tr>
<tr>
<td>Impact penetration, City of San Francisco test</td>
<td>&lt; 6 cm³</td>
<td>&lt; 3.3 cm³</td>
</tr>
<tr>
<td>Abrasion resistance, City of San Francisco test</td>
<td>&lt; 15 cm²</td>
<td>&lt; 8.3 cm²</td>
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APPLICATION METHODS
Multiple passes may be required to build the material up to the thickness required to achieve the fire resistance rating.
Field inspection for thickness, density and bond strength by an independent agency is recommended and may be required by the local building code jurisdiction. Any areas with insufficient thickness or damage by subsequent trades must be patched to the appropriate thickness to maintain the indicated fire resistance rating.

6. Availability & Cost
AVAILABILITY
Sales representatives and manufacturing facilities are located throughout North America, Latin America, Europe and Asia.
COST
Contact a Grace sales representative for cost information.

7. Warranty
Contact a Grace representative for warranty details.

8. Maintenance
No maintenance is required. Contact a qualified Monokote contractor to patch areas of fireproofing material disturbed by later activity.

9. Technical Services
Grace sales representatives are trained to provide specification and jobsite assistance. Contact Grace for the nearest office.

10. Filing Systems
• Reed First Source
• AIA MASTERSPEC® Section 07811 - Sprayed Fire-Resistive Material
• General Services Administration (GSA) - AIA/SC/GSA Specification Section 07811
• NAVFACENGCOM Guide Specification NFGS-07810B Spray Applied Fireproofing
• Additional product information is available from the manufacturer.

W.R. Grace & Co.-Conn. hopes the information here will be helpful. It is based upon data and knowledge considered to be true and accurate and is offered for the user’s consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any application with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any...