

EMISSHIELD® M-1

Product Data

6/18

Description: High Emissivity Coating for Metal Substrates in the Glass Industry

- Features:**
- High Emissivity.
 - Abrasion Resistant.
 - Glazes to Form Impermeable Barrier.

Product Information

Substrate	Metal
Type	Pinhole-Free Glaze
Maximum Service Temperature	1652°F (900°C)
Emissivity	0.88 to 0.93
Grey or Non-Grey Body	Grey Body
Coverage Rate	200 ft ² /gal (4.9 m ² /L)
Coating Thickness	30 to 100 µm
Density	137 to 156 lb/ft ³ (2.2 to 2.5 g/cc)
Thermal Conductivity	(1.1 to 1.3 W/mK)

Installation Guidelines

Prepare surface by grit blasting to clean white and cleaning with acetone or Dir-Lum 603 to remove oils. Application must be done within 24 hours of preparation. No base layer or primer needed.

Contact Emisshield Inc. for full installation guidelines.

Shelf Life (Under Proper Storage Conditions)	3 months
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Sintering Instructions

In an oxidizing atmosphere, heat to 1500°F (815°C) at a rate of 100°F/hour, hold temperature for one hour, then cool at any rate. Large and/or complex shapes may require additional time at temperature. Surface will appear glassy when fully sintered. Color change is normal.

Emisshield is designed and manufactured by Emisshield Inc., Blacksburg, VA.

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