



OMEGA FIRE™

TECHNICAL SHEET

DESCRIPTION

OMEGA FIRE is a one-component coating having a blend of eight different ceramics combined in a water-based formula to create a barrier against extreme flame impingement and heat migration. The coating can withstand direct flame up to 2000°F (1093°C) by hardening on the surface at first contact, while continuing to provide the necessary insulation value. The resin blend binds the compounds together and forms a char to matrix the ceramics across the face of the coating, facing the flame. OMEGA FIRE is designed to stay intact with constant adhesion at extreme temperatures while remaining flexible. It is applied over HOT PIPE COATING to create a system to use over structural steel.

TYPICAL USES

- As fire protection for: strategic locations on warfare ships, engine rooms and galleys on commercial ships, corner beams, elevator shafts, stairwells, walls, ceilings, and boiler rooms
- To control and contain fires in high-rise buildings; prevent the spread and collapse of support structures
- NYC approval for two hours on support beams
- Additional tests continuing (I beam)

TESTS AND CERTIFICATIONS

- USDA Approved
- Marine Approvals for Salt Water/Maritime Use (renewals pending):
 - US Coast Guard
 - ABS (American Bureau of Shipping)
 - IMO (International Marine Organization)
- Fire Endurance Testing (UL1709/ASTM E119)
- Flame Spread/Smoke (ASTM E84) Class A Fire Rated

APPLICATION METHODS

OMEGA FIRE can be applied to metal, concrete, masonry, and composite surfaces. The application can be by spray or by trowel. For specific instructions on surface preparation, mixing and application, please refer to the SPE Application Instruction sheet for HOT PIPE COATING and OMEGA FIRE.

NOTE: A prescribed thickness is required for specific temperature and duration of protection.



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MINIMUM SPREAD RATES (mil thickness)

- 24.0 sq. ft/gal = 50 mils dry film thickness
- 12.0 sq. ft/gal = 100 mils dry film thickness
- 6.0 sq. ft/gal = 200 mils dry film thickness
- 4.8 sq. ft/gal = 250 mils dry film thickness
- 2.6 sq. ft/gal = 500 mils dry film thickness

PHYSICAL DATA

- Solids: 61% by weight; 74% by volume
- Dry Time: 4-6 hours to tack free. Overcoat and cure window is according to humidity and temperature.
- Lead and Chromate Free
- Cures by evaporation (water-based) and affected by temperature and humidity
- Weight: 9.5 lbs per gallon
- Vehicle Type: Water-based resin system of acrylic and silicone
- Shelf Life: Up to 3 years unopened under appropriate storage conditions (See SDS)
- VOC Level: 76 grams/liter
- Viscosity: 90,000 centipoise
- UV resistant
- Mold and mildew resistant

NOTE: If Omega Fire is applied on the exterior, it must be top-coated with Enamo Grip or Super Therm for UV protection, weathering and durability.

SAFETY PRECAUTIONS

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: proper ventilation, use of proper lamps, wearing of protective clothing and masks, tenting, and proper separation of application areas. For more specific safety procedures, please refer to the OMEGA FIRE Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN.

LIMITATION OF LIABILITY: All recommendations or suggestions relating to the use of the products, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The products and information are designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use. SPE has no control over either the quality of condition of the substrate, or the many factors affecting the use and application of the product. Therefore, SPE does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet. The information contained in this data sheet is subject to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and the user has the responsibility to ensure that this sheet is current prior to using the product.

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