



# OMEGA FIRE

## Application Instructions (11/30/18)

OMEGA FIRE is a single component coating having a blend of seven 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 2200°F (1204°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. It is applied over HPC® Coating to create a system to use over structural steel.

### SURFACE PREPARATION

#### **New construction (metal, concrete, masonry and composite):**

- 1) Power wash surface (3,500 psi) to remove dirt, oil tar, grease and film.
- 2) Surface must be completely dry.
- 3) Apply coating directly over substrate.

#### **Previously coated (metal, concrete, masonry and composite):**

- 1) Power wash surface (3,500 psi) to remove loose or flaking paint, rust and salts, and to clean the surface of dirt, oil, tar grease and film. Remove 'pack rust' (see below).
- 2) Surface must be completely dry.
- 3) Apply coating directly over substrate. If existing coating surface is glossed, it must be sanded and roughed before application, no gloss.

**NOTE 1:** If pack rust, scale or bright glossy surfaces exist, they must be removed by grit blast, power tool or needle gun. Once removed, begin with Step 1 (power wash).

**NOTE 2:** Salt contamination on a surface can come as a result of salt water, fertilizers, and car exhaust. Use Chlor\*Rid or equivalent to decontaminate surface if salts are present. Acceptable levels: Nitrates: 5-10 mcg/cm<sup>2</sup>, Sulfates: 5-10 mcg/cm<sup>2</sup>, Chlorides: 3-5 mcg/cm<sup>2</sup>.

**NOTE 3:** OMEGA FIRE can be applied to existing coatings as long as that coating is solidly bonded to the substrate. If any surface shows gloss, it must first be sanded to a dull finish, for best adhesion.

### MIXING

- 1) Stir mechanically for seven minutes to loosen up the coating.
- 2) Apply as needed. Replace lid if not all content is used.

### APPLICATION

OMEGA FIRE can be applied by sprayer or trowel.

- 1) For application by airless, use a Graco TexSpray 2000, with the large tip that comes with the machine.
- 2) Apply multiple coats and build up for optimal results.
- 3) Never apply this coating when there is a threat of rain on the day of application.
- 4) Hopper Gun is good for small jobs.

**NOTE 1:** 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.

**NOTE 2:** REMOVE ALL FILTERS, IF ANY, FROM GUN AND MACHINE to avoid trapping ceramics.

### MINIMUM SPREAD RATES (mil thickness)

2 hour protection = 670 mils wet/500 mils dry  
Apply in three (3) coats.

### CURE TIME

- 1) Four hours to touch.
- 2) Recoat window is twelve hours at 70°F. or longer.
- 3) Fully cures in twenty-one days.

### TEMPERATURE

- 1) Apply between 50°F. and 150°F.
- 2) Store between 40°F. and 100°F.

### CLEAN-UP EQUIPMENT

- 1) After completion, spray system should be cleaned with soap and water.
- 2) After completion, trowels can be cleaned with soap and water, stored and reused.