

### FIRECERAMIC PRIMER – EPP-SHP LINE

**DESCRIPTION** : It is an epoxy based primer that contains anti-corrosive zinc phosphate pigments, dries quickly, with high adhesion. Applied after sandblasting. Due to the ceramic particles it contains, it gives excellent corrosion resistance and adhesion. It is used under intumescent paint as primer.

**AREAS OF USE** : The product is used during manufacture of scraped steel plates and sheets as a primer for anti-corrosion. Due to its strong resistance, it is also used as a primer for sheets during welding. It can be also used on aluminum and galvanized surfaces for improving paint adherence. The product is used as a primer before fire proofing paint applications.

**SOLVENT** : Solvent – Epoxy thinner

**APPEARANCE** : Matt

**COLORS** : Gray and red

**DENSITY** : 1,15 kg/lit (as a mixture)

**SOLIDS** : by volume % 32 ± 1

**V.O.C.** : 230 g/lit (ASTM D 3960 – 05)

**RECOMMENDED THICKNESS:** 25µ

**PACKAGE** : 18 kg A component - 0,5 kg B component

**STORAGE** : Flammable liquid regulations should be followed. The product should be stored in a cool, dry and efficiently ventilated area. No smoking in storage area. If a leakage is detected, then it should be cleaned with a proper absorbent (such as soil).

**PREPARING THE PAINT** : **The product should be mixed well before use. Different components should be mixed separately and mixed together for 5 minutes after combining.** Open packages should not be used and the supplier should be contacted. Due to the two-component nature of the paint, it is utmost important that the mixture is made as per stated amounts. Any different mixture will contradict all theoretical estimations.

**PREPARING THE MIXTURE:** 1<sup>st</sup> component is the paint and 2<sup>nd</sup> component is the hardener. The paint and the hardener should be mixed as **36:1 ratio in terms of weight**. For example, 18 kg of 2<sup>nd</sup> component should be added over 0.5 kg of 1<sup>st</sup> component. The amounts should be precise, any variation should be avoided. The mixture should have the right viscosity for being used with epoxy thinner. The mixture should be used within 4-8 hours after mixing. Otherwise, the mixture will become gel and unusable. When the two components are mixed, a drying reaction will begin. Thus, the produced amount should be equivalent to the amount to be used.

**SURFACE PREPARATION:** The surface should be dry and cleaned from rust, and grease. In order to clean the surface from dirt, dust and mud, use fresh water with high pressure. Proposed abrasive rasp degree is generally Sa<sup>1/2</sup>. If the conditions in the location would not allow you to work with this degree, you may carry out the cleaning on St2 degree as well.

**APPLICATION TEMPERATURE:** For avoiding the humidity to condense on the surface, surface temperature should be at least 3°C more than dew point temperature. The temperature should be over 10°C during application.

**APPLICATION METHOD :** with airless, air gun or brush.

**APPLICATION :** The application can start after the surface is prepared for painting and the paint is mixed as described. During application the equipment is as important as the paint. It is utmost important that the mixture is made as per stated amounts and the temperature should be at least over 10°C during application. One coat can be applied on top of the other. During wet coat applications, there should be a 6 hours (20°C) break between the two applications. The waiting period between coat applications may change according to weather temperature in the application area.

- Thinner percentage:** 25% epoxy thinner by volume
- Mixture life :** 4- 8 hours
- Nozzle diameter :** 0,021
- Nozzle pressure :** 75 bar/1100 psi
- Cleaning Equipment:** Epoxy thinner

**DRYING TIME :** Considering 20<sup>0</sup> C and 65% relative humidity rate and if the dry film thickness is 25µ:

Non- dust holding Drying	Dry to Handle	Assembly Drying	Mechanical Drying
Approximately 5-10 minutes	Approximately 4-7 hours	Approximately 24 hours	Approximately 7 days

**PAINTED AREA :** Theoretically the painted area is 12,8 m2/lt – with 25µ dry film thickness and in room temperature.



## TECHNICAL BULLETIN

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**SAFETY WARNINGS** : Do not inhale; avoid contacting it with skin and eyes. Apply in a well ventilated location.  
Be cautious for fire.