



## Product Description

Heat Resistant Silicone Coating 550-600°C is an one component pure silicone coating with temperature resistant to 550 °C for long time (600 °C for short time )also it has excellent resistance expose weather ,corrosion and extreme thermal shocks .

## Recommended Use

This coating can be used as a self-priming coating system over abrasive blast cleaned steel or for maximum protection over zinc silicate primer .That protects exteriors of steel structures exposed to thermal for example smoke stacks, pipe line and body of boilers.

## Surface Preparation

- 1: All surfaces to be coated should be clean ,dry and free from contamination prior to paint application .All surfaces should be assessed and treated in accordance with ISO 8504 :1992,remove all oil or grease ,soluble contaminants and other detrimental foreign matter in accordance with SSPC-SP1 solvent cleaning .
- 2: This coating is suitable for application to steelwork freshly coated with zinc silicate primer .If the zinc silicate primer shows extensive or widely scattered break down, or excessive zinc corrosion products, overall sweep blasting will be necessary.

## Product Description

Shade :	Aluminum
Glossy:	Semi-gloss
Percentage of Vehicle:	76%-79%
Percentage of Volume solids:	40%-45%
Dry film thickness:	20 μ
Wet film thickness:	50-60 μ
Specific gravity :	1-1.1 Kg/Lit
Viscosity:	80-85 k
Shelf life:	12 months
Theoretical spreading rate:	14-16 m <sup>2</sup> /kg
Thinner:	Heat Resistant Thinner Rangin Zereh Sepahan
Heat resistance:	550-600 °C

Temperature	Touch dry	Full Cure	Recoating
15°C	3-4 Hours	Hard dry and mechanical resistant of this coating is product for 1 hour to 550-600°C	May be recoated when thorough dry or after being heated for 1 hour to 550-600° C
25°C	1-2 Hours		
40°C	30 Minutes		

## Environmental Conditions

To prevent moisture condensation during application surface temperature must be at least 3 °C above the dew point .For satisfactory cure air and surface temperature must be above 10°C.Never apply coatings under reverse environmental condition .Paint shall not be applied when wind speed is in excess of 7 m/s.





## Application Details

Airless spray	Tip range: 0.015-0.017 inch Total out put pressure at spray tip not less than 141 bar.
Air spray	Nozzle orifice:1.8-2 mm Nozzle pressure:3-5 bar
Brush	10-15μ (touch up)
Roller	10-15μ (touch up)

## Application Procedure

- 1: Flush all equipment with recommended cleaner before use.
- 2: Stir the product thoroughly with a mixer.
- 3: For air spray, thin with no more than 5% of recommended thinner for workability, for airless spray 2-3%of thinner is normally sufficient.
- 4: Apply a wet coat by parallel passes overlap each pass 50% to avoid bare areas.
- 5: It is recommended to avoid to high thickness of the paint as this will give a risk of blistering at later heating.
- 6: Double coat all welds, rough spots, sharp edges, rivets, bolts, etc.to ensure proper thickness.
- 7: Clean all equipment with recommend cleaner immediately after use.

## Safety

This product is flammable keep away from heat and open flame operator (accordance MSDS of this product) must use special mask and safety gloves and operation should be performed in environments which is equipped with suitable air conditions.

## Storage Conditions

Store in closed container and away from direct sunlight at temperature of 5-35 °C.

