Product Description

Heat Resistant Silicone Coating 450-500ºC is an one component pure silicone coating with temperature resistant to 450 ºC for long time (500 ºC 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^2/kg
Thinner:	Heat Resistant Thinner Rangin Zereh Sepahan
Heat resistance:	450-450 ºC

Temperature	Touch dry	Full Cure	Recoating
15ºC	3-4 Hours	Hard dry and mechanical resistant of this coating is product for 1 hour to 450-450 ºC	May be recoated when thorough dry or after being heated for 1 hour to 450-450 ºC
25ºC	1-2 Hours		
40ºC	30 Minutes		

Dry times are dependent on applied film thickness, all data in this catalogue are reported at recommended D.F.T in laboratory conditions

ADDRESS: ISFAHAN, NAJAFABAD 2 INDUSTRIAL TOWN, KARGAR SQUARE, RAZI ST., SUB-16, NO. 9
TEL: 09131250751 | 09133044014 WEBSITE: WWW.RANGINALVANZEREH.COM EMAIL: INFO@RANGINALVANZEREH.COM

RZS-7238| Heat Resistant Silicone Coating 400-450ºC

Environmental Conditions

To prevent moisture condensation during application surface temperature must be at least 3 ºC above the dew point .For satisfactory cure air and surface temperature must be above 10ºC.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: 2-4 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 ºC.

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