ACRYLIC PAINTS- SILICONE COATING RESISTANT TO TEMPERATURE 400-450 CELSIUS (F5709)

Product description:

F5709 is a one-component coating based on silicone resin and has permanent heat resistance up to 400 °C and short-term heat resistance up to 450 °C. Also, this coating has excellent resistance against corrosion factors, weather conditions and thermal shocks.

Application:

This coating can be used as a single layer coating system on sandblasted metal surface or for maximum protection on zinc ethyl silicate primer. This coating protects metal surfaces that are exposed to heat, for example: chimneys, pipelines and furnace bodies.

Technical data:

Specification	Details	EN Standard	ASTM Standard
Shades	aluminum	EN ISO 7724	D2244
Solids by Volume %	45 ± 3	EN ISO 3233-1 / 3233-2	D2697 / D5201
Solids by Weight %	40 ± 2	EN ISO 3251	D2369
Density / Specific gravity g/cm3	0.9 -1.1 kg/lit	EN ISO 2811	D1475
W. mixing ratio	Depending on different shade		
Shelf life	12 months		
Dry Film Thickness (DFT) µm	25 - 30 µ	EN ISO 2808	D7091
Wet Film Thickness (WFT) µm	60 - 70 µ	EN ISO 2808	D4414 /D1212
Spreading Rate (Theoretical Coverage) m2/L	12 - 14 m2/lit		
Hardening mechanism	two-component chemical reactions		
flashpoints	26° C		

Recoating time	Full Cure	Surface drying time (Clock)	Temperature C° °F
Re-coating can be done after drying the paint or heating for 1 hour at 400-450 °C.	Complete drying and mechanical resistances of the paint are obtained after exposure at a temperature of 400-450°C for at least 1 hour.	3-4	59 (15)
		1- 2	77 (25)
		30 min	104 (40)

After applying the color, it should be placed at room temperature for 15 minutes and baked at 100 degrees for one hour before being placed at the maximum temperature. The drying time depends on the thickness of the applied film, all the data in this catalog are based on the dry film thickness in laboratory conditions.

Storage Conditions:

This product should be stored in a closed space away from direct rays at a temperature of 5-35 degrees.

Equipment Used:

AIRLESS SPRAY
NOZZLE DIAMETER: 0.015-0.017 INCHES OUTPUT PRESSURE: AT LEAST 141 TIMES AIR SPRAY
Nozzle diameter: 1.8 mm
Nozzle pressure: 2-4 times
Brush: for an area less than 0.2 m2, 10-15 (FOR STAINING)
Roll.ER: FORANAREALESSTHAN 0.2 M,210-15 µ, (FOR STAINING)

Environmental Conditions:

The surface temperature should be at least 3 degrees higher than the dew point. To ensure the hardening of the coating, the air and surface temperature should be higher than 10°C. This cover should not be implemented in areas where the weather changes or the wind speed exceeds 7 m/s.

Surface Preparation:

- The target surface must be well clean, dry and free of any contamination and prepared according to ISO 8504: 1992 standard. Oil or grease must be washed according to SSPC-SP1 standard.
- This coating is suitable for use on metal surfaces or surfaces coated with ethyl silicate primer. If the ethyl silicate primer is damaged or rusted, the surface must be de-rusted.

Method of Applying:

- All equipment should be cleaned with recommended thinner before use.
- Mix this coating with a mixer.
- It is recommended to use 5% thinner for air spray and 2-3% thinner for airless spray.
- Each painting pulse should be applied in parallel so that each pulse covers 50% of the painted surface with a right angle.
- In order to prevent the coating from bubbling after heating, it is suggested not to apply the coating with a high thickness.
- To ensure the desired thickness, corners, sharp edges, rivets and uneven parts should be covered again.
- Wash all equipment immediately after use.

Safety Tips:

This product is water-based and not flammable. However, it is recommended that in case of contact with the skin, wash it with soap and large amounts of water, and in case of further skin sensitivity and irritation, see a doctor.

Considerations:

The drying time depends on the film thickness applied, all the data in this catalog are based on the thickness of the dry film in vitro conditions.

LEGAL NOTES : : The information contained in this Technical Data Sheet is based on laboratory testing and practical experience. Actual performance may vary depending on substrate condition, application method, and environmental conditions. Users should test suitability before large-scale application.

Head Office : Building No.15 , Qasimlu Street 40, Shahidan Zargata Quarter 24, Zone 1, Sulaymaniyah 46001, Iraq

Factory : Tanjaro Industrial Area – Sulaymaniyah – Iraq

www.polystar-iraq.com info@polystar-iraq.com + 964 (0) 750 111 4900 +964 (0) 770-757 70 70