



ACRYLIC PAINTS- ACRYLIC SILICONE RESISTANT TO TEMPERATURE OF 200-250 CELSIUS (F3729)

Product description: F3729 is a one-component coating based on acrylic resin modified with silicone and has permanent heat resistance up to 200°C temperature and short-term heat resistance up to 250°C temperature. Also, this coating has good adhesion to the surface and has the ability to maintain the color well under weather conditions.

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/cm ³ | 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) m ² /L | 12 - 14 m ² /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 200-250 °C. | Complete drying and mechanical resistances of the paint are obtained after exposure at a temperature of 200-250°C for at least 1 hour. | 3-4 | 59 (15) |
| | | 1- 2 | 77 (25) |
| | | 30 min | 104 (40) |

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.

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

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)

ROU.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.

Storage Conditions:

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

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.

