

### INSUL PAINT – ACR-S LINE

**DESCRIPTION** : It is a modified acrylic resin based, aliphatic, two-component topcoat paint that is adjusted to matrix system, with a long-lasting gloss and with high mechanical and chemical resistance. The product is supported by NASA ceramics and produces high heat insulation.

**AREAS OF USE** : It is used on industrial buildings that are exposed to sunlight, decks, mechanical equipments and over-vehicle equipments that require brightness, mechanical and chemical resistance, and high heat insulation.

**SOLVENT** : Solvent – acrylic thinner

**APPEARANCE** : Semi-glossy, glossy

**COLORS** : Any color can be produced.

**DENSITY** : 1,05 Kg/L (as a mixture)

**SOLIDS** : by volume : % 65 ± 1 (ASTM D 2697-03)

**V.O.C.** : 352 g/L (ASTM D 3960-05)

**PACKAGE** : 18 kg 1.component 6 kg 2. component

**STORAGE** : The product should be stored in a cool and dry location; the package covers should always be closed. Best kept over 5 degrees. Under proper conditions storage life is 1 year.

**PREPARING THE PAINT :** **Mix well before use.** Open packages should not be used and the supplier should be contacted. Due to the two-component nature of the product, 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. Component is the paint and 2. Component is the hardener. The paint and the hardener should be mixed **in 3:1 ratio by weight**. For example, over 3.kg of 1<sup>st</sup> component, 1 kg of 2<sup>nd</sup> component should be added. The amounts should be precise, any variation should be avoided. The mixture should have the fluidity for being used with epoxy thinner. The mixture should be used within 4-8 hours after preparation. 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.

**PREPARING THE SURFACE:** Endurance of the coating system depends on proper cleaning of the surface. The surface should be cleaned from dirt, rust, grease and other unspecified layers. Best solution is received by spraying method in accordance with DIN 55928 section 4, standard degree Sa 2 ½ or DIN ISO 12944-4. The product should be used after the surface is cleaned and the undercoat application is finished. The results are perfect especially when the product is applied over epoxy undercoats. Endurance of the old coating should be tested first. It is utmost important to remove all the remains of old coatings if they are cracked, improperly adhered and ruined due to being subject to open air. Old glossy and straight coatings should be roughened with sandpaper.

**APPLICATION TEMPERATURE:** Air and surface temperature should be between 5-30°C Relative humidity rate is as important as the temperature. Surface temperature should be at least 3 °C more than dew point temperature.

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

**APPLICATION :** The topcoat application can start only after the undercoat is gets fully dry. It is utmost important that the mixture is made as per stated amounts and the temperature should be at least over 5°C during application. One coat can be applied on top of the other. Two coat applications are recommended. 1<sup>st</sup> coat should be the thin layer and 2<sup>nd</sup> should be the real application. During wet coat applications, at least 30 minutes flash off period should be waited. After this period, the second coat application can begin. Then the surface should be left for drying naturally or oven-dried.

**DRYING TIME :** Considering 20<sup>0</sup> C and 65% of relative humidity rate,

Non- dust holding Drying	Dry to Handle	Assembly Drying	Mechanical Drying
Approximately 1-2 hours	Approximately 4-7 hours	Approximately 24 hours	Approximately 7 days
If oven-dried 30 minutes in 80°C would suffice.			

**PAINTED AREA :** On both coats, depending on the surface 4 m2 can be painted with 1 kg. (calculations based on 150 micron dry film thickness). When used with a metalshield hard, 8m2 can be painted with 1 kg.

**SAFETY WARNINGS :** Keep out of reach of children. Store in a cool place, best between 10 - 25 °C. Upon contact with eyes, wash with water and consult a doctor. If swallowed, immediately consult a doctor.

**DANGER WARNINGS :** Injurious to health when swallowed.