

RZ – 7138

Heat Resistant Pure Silicone Aluminium Coating

Product Description

RZ-7138 is a high temperature resistant, aluminum pigmented primer, based on silicone resin.

Recommended Use

As a temperature resistant paint, for use in protection of steel surfaces subjected to temperatures up to 600°C. It is suitable a heat resistant coating for chimney stacks, boiler fronts, duct works, piping and furnace structures.

Outstanding Characteristics

- High temperature resistance
- Withstanding extreme thermal shocks
- Excellent recoat ability without stoving between coats
- Good corrosion and weather resistance

Surface Preparation

Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Abrasive blasting to Sa 2½, SSPC-10 .

It may be applied over cured zinc silicate ; 50 MEK double rubs are achieved.(No zinc or only slight traces should be visible). If pinholing develops, apply a mist coat of the topcoat, reduced up to 50%. Allow 10 minutes flash off and follow with a full coat. •Applying a wet full coat, but at minimum film build, prior to applying a complete full coat. Before applying RZ-7138 , clean surface thoroughly, removing all dirt, grease, oil and/or other contaminants. Zinc salts must be removed prior to overcoating by sweeping or fresh water and scrubbing with stiff brushes and allowing drying.

Technical Data

Finish	Aluminium Sheen
Color	Aluminum
Volume Solids	32 ± 2%
Specific Gravity	1.05 ± 0.03 gr/cm ³
Flash Point	25 °C
Recommended D.F.T.	25-50 microns <i>50 Mic. is applied in two coat</i>
Theoretical coverage	12.8-6.4 m ² /lit 12.2-6.1 m ² /kg
Touch dry	30 minutes at 25 °C
Hard dry	1½hour at 25°C
Thermal Resistance	Continuous 600 °C Non continuous 650 °C
Shelf life	12 months at 25 °C

Application Details

Application method	Air/Airless spray, Brush,Roller
Nozzle orifice	0.015"-0.017"
Nozzle pressure	125 bar / 1800 Psi
Ambient temperature	5-45° C
Thinner/Cleaner	RZT- 71
Recoat interval min:	24 hrs at 20°C
Recoat interval max:	None (see Remarks overleaf)

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Application Procedure RZ-7138

1. Flush all equipment with recommended cleaner before use.
2. Stir the product thoroughly with a power mixer.
3. For air spray, thin with no more than 5-10% of recommended thinner for workability.
4. Apply a wet coat by parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
5. Preceding coat: can be used directly on blast – cleaned steel. For maximum protection a primer coat of one of the following paints is recommended (60-75 microns film thickness of RZ-7316 .)
This will lower the heat resistance to approx 600° C .
6. Film thickness: it is recommended to avoid to high thickness of the paint as this will give a risk of blistering at later heating.
Thinner RZT-71 must be added at application to secure the low dry film thickness.
- 7.Recoating: Before recoating after exposure in contaminated environment clean surface thoroughly by high pressure fresh water hosing and allow to dry.
8. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
9. Random pinholes, holidays and small damaged or bare areas can be touched up by brush when the film is dry to touch. Larger areas should be sprayed.
10. In confined areas ventilate with clean air during application and drying until all solvents are removed.
11. Clean all equipment with recommended cleaner immediately after use.

Drying and curing information

RZ-7138 will air dry tack and thumb paint free within 2-3 hours. Allow 10-12 hours dry time between coats. Allow 48 hours dry time prior to shipping or handling if coating is not cured. Surfaces coated with RZ-7138 in the air dried state can be handle and shipped prior to heat cure as long as shipping and handling procedure for thin filmed systems are followed. Avoid mechanical abrasion during handling and installation. Higher temperature will reduce tack free, recoat and shipping times. Allow one hour solvent flash off prior before heat curing or placing into service. Optimum film properties require a heat cure of 200-250°C for 1-1½ hour. Equipment protected with RZ-7138 in the air-dried will heat cure when placed into service

Environmental Conditions

Surface temperature must be at least 3°c above dew point.
Relative humidity during application should be less than 80%.
Do not apply coatings under reverse environmental conditions.

Safety

This product is flammable. Keep away from heat and open flame. Keep container closed. Avoid prolonged and repeated contact with skin.

Since improper use and handling can be hazardous to health and cause fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods.

If used in confined areas:

- circulate adequate fresh air continuously during application and drying.
- Use fresh air masks and explosion proof equipment
- Prohibit all flames, sparks, welding and smoking
- Take precautionary measures against static discharges

Keep away from food products.

Storage conditions

Store in cool dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperature , the shelf life may be reduced.

Disclaimers

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience.

However we reserve the right to change the given data without notice.

Any recommendation relating to the use of the products, is based on data believed to be reliable. It is buyer to satisfy itself of the suitability of the product for its own particular use .

As the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.

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