RANGIN ZEREH
Protective, Marine and Powder Coatings

RZ – 7238
Heat Resistant Aluminium Silicone Modified

Product Description

RZ-7238 is a high temperature resistant paint, based on modified silicone resin.

Recommended Use

As a temperature resistant paint, for use in protection of steel surfaces subjected to temperatures up to 400°C. It is suitable a heat resistant coating for chimney stacks, boiler fronts, duct works, piping and furnace structures.

Outstanding Characteristics

- Shows excellent performance in both internal and external applications.
- Easy application by spray, brush and roller.
- Withstanding extreme thermal shocks
- Excellent recoat ability without stoving between coats
- Applicable over zinc silicate (RZ - 7316) or directly on blasted steel.

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-7238 , 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,Ral 9006
Volume Solids	31 ± 2%
Specific Gravity	1.09 ± 0.02 gr/cm^3
Flash Point	21 îC
Recommended D.F.T.	15-25 microns* ** 50 Mic can be applied in two coats*
Theoretical coverage	20.6-12.4 m²/lit 18.8-11.2 m²/kg
Touch dry	1 hrs at 25 îC
Hard dry	1½ -2 hour at 250îC
Thermal Resistance	Continuous 400 îC Non continuous 440 îC
Shelf life	12 months at 25 îC

Application Details

Application method	Air/Airless spray, Brush,Roller
Nozzle orifice	0.015"-0.017"
Nozzle pressure	125 bar / 1800 Psi
Ambient temperature	5-45º C
Mixing ratio	Single pack
Thinner/Cleaner	RZT- 71
Recoat interval min:	12 hrs at 25îC
Recoat interval max:	None(see Remarks overleaf)

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Application Procedure of RZ-7238

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 10-15 % 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 micron dry film thickness of RZ-7316 .
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: May be recoated when thorough dry 12 hrs at 25° C) or after being heated for 1½ -2 hour to approximately 250° C.
Before recoating after exposure in contaminated environment clean surface thoroughly by high pressure fresh water hosing and allow to dry.
6. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
8. 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.
9. In confined areas ventilate with clean air during application and drying until all solvents are removed.
10. Clean all equipment with recommended cleaner immediately after use.

Heat curing and baking

Baking causes all the hydroxyl group still present in silicon resins to condense. When this has been achieved the resultant paint film will have maximum resistance to heat, corrosion and chemical. Full film properties are not obtained until heat cured, complete curing is achieved after 1½ hours at 200-250°C or by in-service operation. Curing time is significantly shorter for higher temperature and longer for low temperature.(It needs Min.120°C for curing)

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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