

## TECHNICAL DATA INFORMATION

# HEAT RESISTANT SILICONE ACRYLIC RZ - 7231-2

### Product Description

RZ-7231-2 is a temperature resistant paint, based on modified silicone-acrylic resin.

### Recommended Use

As a temperature resistant paint, for use in protection of steel surfaces subjected to temperatures up to 200°C.

### Outstanding Characteristics

- Rust preventing
- Excellent spray ability
- 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 .

### Technical Data

Finish	Semi flat -Semi gloss
Color	Red,black light colour*
Volume Solids	41 ± 2%
Specific Gravity	1.05 ± 0.05 gr/cm <sup>3</sup>
Flash Point	25 °C
Recommended D.F.T.	25-50 microns 50 Mic. is applied in two coats
Theoretical coverage	16.4-8.2 m <sup>2</sup> ./lit. 15.6- 7.8 m <sup>2</sup> /kg
Practical Coverage	depends on loss factor
Touch dry	1 hour at 25 °C
Hard dry	1-1½ hors at 200°C
Thermal Resistance	Continuously 200 °C Short time Up to 250°C
Shelf life	12 months at 25 °C

### Application Details

Application method	Air/Airless spray, Brush
Nozzle orifice	0.015"-0.017"
Nozzle pressure	125 bar / 1800 Psi
Application temperature	above 5° C
Thinner/Cleaner	RZT- 72
Recoat interval min:	24 hrs at 25°C

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## Application Procedure RZ-7231-2

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 20% 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 (40 micron /1.6 mil dry film thickness: RZ-7316 or RZ-7316-1
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-72 must be added at application to secure the low dry film thickness.
7. Recoating: May be recoated when thorough dry (24 hrs at 20° C) or after being heated for one hour to approximately 200° C/392° F.

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 resprayed.
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 chemicals. To achieve fast & complete curing of the paint film it should be heated for one hour at 200°C. It is preferable to raise the temperature gradually. Although lower temperature or shorter baking times can produce hard paint films, the films may not be fully cured.

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### Limitations

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.

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## 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.

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## Storage and Handling

The products must be stored in accordance with national regulations.

The products should be kept in a cool and well ventilated place protected from heat and direct sunlight. Containers must be kept tightly closed.

Handle with care. Stir well before use.

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## Remarks

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.

\*It will be discoloured in continues thermal .

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# **RANGUIN ZEREH**

## **Protective Coatings**

No.15- 15<sup>th</sup> St. Bokharest Ave. Tehran/ Iran  
Tel: +98 21 88723676 Fax: +98 21 88716358  
<http://www.Ranguinzereh.com>  
Email: [info@Ranguinzereh.com](mailto:info@Ranguinzereh.com)

Revised Feb 2011
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