



# RZ – 5651WJ

## Solvent Free Modified Epoxy

(For Underground Pipeline Welding Joints Grade)

### Product Description

RZ-5651 is a two component modified, ultra high build, solvent free epoxy coatings formulated for maximum corrosion protection of underground pipelines.

### Recommended Use

It is designed to ensure an excellent anti corrosion protection on underground pipeline. It is compatible with FBE coatings and it can be used as protective coatings for weld joints.

### Outstanding Characteristics

- Easy to apply and repair.
- It complies with ISO 21809-3 requirements.
- Superior adhesion to steel and FBE coatings.
- Good corrosion protection and superior resistance to cathodic disband.
- Compatible with FBE, polyolefin and polyurethane coated pipes.

### 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 with a sharp-edged surface profile corresponding to Rug test No. 3, BN9a, keane-Tator comparator, 2.0 G/S or ISO comparator, medium (G).

### Technical Data

Finish	Semi-Gloss
Color	Light Green
Volume Solids	98-100%
Specific Gravity	1.63± 0.05 gr/cm <sup>3</sup>
Recommended DFT	500-1000 microns (1000 Mic. may be applied in two coats)
Theoretical Coverage	2-1 m <sup>2</sup> /lit 1.2-0.6 m <sup>2</sup> /kg
Touch dry	4-5 hrs at 25 °C
Thermal Resistance	Up to 120 °C
Shelf life	12 months at 25 °C

### Application Details

Application method	Dual airless spray Roller, Brush
Mixing Ratio	3 to 1 By volume
Nozzle orifice	0.025-0.031"
Nozzle pressure	200-275 bar
Ambient Temperature	5-45 °C
Pot life	30 minutes 25°C 7 Minute at 50C
Cleaner	RZT-51
Recoat Interval	Min. 6 hr at 25°C Max. 48 hr at 25°C

Revised  
July 2018

## **Application Procedure of RZ-5651**

1. Ensure feed tanks and drums remain thoroughly mixed at low speed to ensure homogenization.
2. Adding thinner or diluents is under any circumstances strictly forbidden.
3. Both the component (A) and hardener (B) can be heated so that the temperature at the tip is between 40C and 70C, dependant on the kinds of equipment.
4. Stir during application to maintain uniformity of material.
- 5- PLURAL COMPONENT HEATED AIRLESS SPRAY:
  - Pump ratio:65:1 or any other similar, at 3500-4000psi
  - 3:1 transfer pump.
  - 40-70C at gun using in-line heaters.
  - Nozzle orifice:0.025-0.031 inch.
- 6- BRUSH OR ROLLER:  
( If needed only for touch up.(Be aware the gel time is typically 10-20 minutes.)
7. Clean all equipment with recommended cleaner immediately after use.

## **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.  
Theses coating shall not be applied at temperatures below 10° C.

## **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.

# **RANGIN ZEREH**

## **High Performance Protective Coatings**

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

*Revised  
July 2018*