

# RZ - 7316

## Zinc Ethyl Silicate Primer

Approved by DNV as primer for system 1, Norsok M501

### Product Description

RZ-7316 is a 3-pack, self curing (reacting with atmospheric moisture), solvent based inorganic zinc rich coating.

### Recommended Use

As a general purpose, heavy duty rust preventing primer, suitable for long term protection of steel structures exposed to severely corrosive and abrasive environment.

### Outstanding Characteristics

- High corrosion and abrasion resistance.
- Heat resistance up to 420 °C.
- Suitable for use with a wide range of high performance topcoats.

### 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	Flat
Color	Grey
Volume Solids	61 ± 2%
Specific Gravity	2.70 ± 0.1 g/cm <sup>3</sup>
Flash Point	14 °C
Zinc content in dry film	90±1 %
Recommended D.F.T.	60-75 microns
Theoretical coverage	10.16-8.13 m <sup>2</sup> /lit 3.76-3.01 m <sup>2</sup> /kg
Practical Coverage	depends on loss factor
Touch dry	Max 10 min
Hard dry	24 hrs at relative Humidity up 65-75 %
Thermal Resistance	continuous 400 °C Non-continuous 420°C
Shelf life    Liquids	6(part A), 12(part B) Months at 25°C
Powder	Indefinite

### Application Details

Application method	Air/Airless spray, Brush
Nozzle orifice	0.017" – 0.019"
Nozzle pressure	150 bars / 2200 Psi
Ambient temperature	5-55°C
Mixing ratio	A / B/ C 5/3/25 by weight
Cleaner	RZT-73
Pot life	4 hrs at 25 °C
Recoat interval min	(see remarks overleaf)
Recoat interval max overleaf	\Unlimited see remarks

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## Application Procedure of RZ-7316

1. Flush all equipment with recommended cleaner to remove any present moisture that may cause hardening of the product in equipment.
2. Mix (B) into liquid (A) until it is well homogenized then add slowly C(Powder) with mixing through dispersed and mixture is free of lumps.
3. Since pot life is limited and shortened by high temperatures, do not mix more material that will be used within the pot life time.
4. Keep containers loosely covered until ready to use to prevent skinning or gelling due to air moisture.
5. Continue slow stirring during application to maintain uniformity of material. Avoid fast stirring as this may cause a rise in material temperature shortening pot life.

6. Check thickness of dry coating with a non-destructive thickness gauge

**Note:** RZ-7316 must be fully cured before overcoating with a full paint system. By recoating with tie coat in 30 -40microns . The interval can be reduced to e.g. 1-3 days at 20C and 60-75% RH provides that the following coats are applied after full curing.

Prevent contact with water until the freshly applied coating is at least dry to touch.

8. In confined areas ventilate with clean air during application and drying until all solvents are removed.
9. Clean all equipment with recommended cleaner immediately after use.

### TOP COATING

Topcoats may be applied once 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 top coating, 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. At relative humidity below 50%, please consult RANGINZEREH Co. for further detail in this situation.

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### Environmental Conditions

Surface temperature should be at least 3° C above dew point. Relative humidity should be 30-90 %. Below 30% the full curing will not occur. Below 50% relative humidity the minimum recoat interval time will be taken longer.

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## Safety

This product is highly flammable. Keep away from heat and open flame. Keep container closed. Avoid prolonged and repeated contact with skin. The powder is harmful dust containing zinc. Avoid breathing dust and wash thoroughly before eating or smoking.

Contact with water liberates highly flammable gases, spontaneously flammable in air. Do not leave mixed material in sealed container beyond the expected pot life as gassing may cause container to burst.

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.

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