

Technical Data

Barrier 65



Product description

This is a two component polyamide cured zinc rich epoxy coating. It is a zinc dust containing product. It conforms to the compositional requirements of SSPC paint 20, level 3. It provides good corrosion protection as part of a complete coating system. To be used as primer in atmospheric environments. Suitable for carbon steel, repair of inorganic zinc silicate coating and damaged galvanised steel substrates.

Recommended use

Protective:

Suitable for structural steel and piping to be exposed to corrosivity environments up to high. Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel. Designed as a primer in coating systems where durability is required.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	50	100	65
Film thickness, wet (μm)	75	150	100
Theoretical spreading rate (m^2/l)	13,2	6,6	10,2

Comments

In a system of DFT of max. 100 μm , the drying time will increase.

Physical properties

Colour	Grey
Solids (vol %)*	66 ± 2
Flash point	27 °C ± 2 (Setaflash)
VOC	2,75 lbs/gal (330 gms/ltr) USA-EPA Method 24
Gloss	Flat
Water resistance	Excellent
Abrasion resistance	Very good
Solvent resistance	Very good
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Hong Kong rules: Category of paints - Other vessel coatings; VOC 330 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 2.35 (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel

Cleanliness: Blast cleaning to min. Sa 2 ½ (ISO 8501-1:2007) or for maintenance UHPWJ to WJ2 (NACE No.5/SSPC-SP 12). Roughness: using abrasives suitable to achieve minimum grade Fine (ISO 8503-2).

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum -5°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured.

Application methods

Spray	Use airless spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	4.5:1
Mixing	4.5 parts Comp. A (base) to be mixed thoroughly with 1 part Barrier 65, Comp. B (curing agent)
Pot life (23°C)	2.5 hours (Reduced at higher temp.).
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	15 MPa min (150 kp/cm ² , 2100 psi.).
Nozzle tip	0.43 - 0.53 mm (0.017 - 0.021").
Spray angle	40 - 80°
Filter	Check to ensure that filters are clean.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

Substrate temperature	-5°C	0°C	10°C	23°C	40°C
Surface dry	2 h	45 min	15 min	10 min	5 min
Through dry	28 h	12 h	4 h	2 h	1 h
Cured		14 d	10 d	5 d	3 d
Dry to recoat, minimum ¹	28 h	12 h	4 h	2 h	1 h
Dry to recoat, maximum ^{1,2}					

1. Recommended data given for recoating with coatings normally specified on top of zinc epoxy coatings.
1. The surface should be dry and free from any contamination prior to application of the subsequent coat.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Barrier 65 **1 x 65 µm (Dry Film Thickness)**

Subsequent coating(s) by choice e.g.: Epoxy

Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use. Continuous stirring during application will prevent the heavy zinc pigment from settling.

Packing size

8.8 litre unit: 7.2 litres Comp. A (base) in a 10 litre container and 1.6 litres Barrier 65, Comp. B (curing agent) in a 3 litre container.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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