



SD ZINC 100QD

Product description

SD Zinc 100QD is a two pack, quick drying zinc rich epoxy shop primer using as a holding primer.
SD Zinc 100QD is good corrosion protection of steel during normal storage and fabrication.

Recommended use

- As a zinc rich holding primer, SD Zinc 100QD is to be applied onto bared steel surface where shop primer is damaged by fire works such as welding, gas cutting and other steel works.
- For application on steel for water ballast tanks at newbuilding stage in accordance with PSPC-WBT (IMO Res. MSC.215(82)).
- For application on steel for cargo oil tanks at newbuilding stage in accordance with COT-PSPC (IMO Res. MSC.288(87)).

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	10	50	25
Film thickness, wet (µm)	-	-	-
Theoretical spreading rate (m ² /L)	38.5	7.6	15.2

* The theoretical spreading rate has been calculated according to the method of ISO 3233:1998.

Approvals

PSPC PRODUCT ID Base: 12421002, Liquid: 12421003

Physical Properties

Colour	Grey, Reddish Grey, Green U		
Solids (vol%)	38 ± 2		
Flash point	Base	18.0°C	
	Hardener	18.0°C	
Specific Gravity	Base	1.97	(measured data of Grey as representative colour)
	Hardener	0.89	

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 - including damaged shopprimed surface, erection area, butt, heat affected area

Power tool cleaning to St3 (ISO 8501-1:2007)

Blast cleaning to Sa 2 1/2 (ISO 8501-1:2007)

Roughness on the blasted surface: using abrasives suitable to achieve grade Medium S (30-75 µm, Rz) (ISO 8503-2)

Soluble salt - Maximum 50 mg/m² (ISO 8502-6 & -9:1998)

Dust grade - Dust quantity rating "1" for dust size class "3", "4" or "5" (ISO 8502-3: 1993)

Lower dust size classes to be removed if visible on the surface to be coated without magnification.



Shoppripped steel

Intact shop primer surface

- The shop primer which has passed a pre-qualification test shall be cleaned by sweep blasting, high-pressure washing or equivalent method
- Sa 2 removing at least 70% of intact shop primer, which has not passed a prequalification test specified by PSPC procedures

Damaged shop primer

- Sa 2 1/2 on damaged shop primer and welds

Surface treatment after erection

- Butts: St3 or better or Sa 2 1/2 where applicable
- Small damages up to 2% of total area: St 3
- Contiguous damages over 25 m² or over 2% of the total area of the tank: Sa 2 1/2
- Coating in overlap to be feathered

Other precautions

SD Zinc 100QD cannot be applied onto the coated surface with the other coating materials except approved/intact shop primers.

The surface should be required blast cleaning to remove whole coated materials.

The details should be consulted by Technical Department of Kansai Paint Marine Co., Ltd.

Condition during application

The temperature of the substrate should be minimum at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate.

Recommended ambient temperature is 0 to 40°C and below 85% relative humidity.

Application methods

- Spray Use airless spray or conventional spray
- Brush Recommended for touch-up purposes.

Application data

Mixing ratio (weight)	Base/Hardener = 17.2/2.8			
Mixing	Add hardener into Base and mix them thoroughly until uniform.			
Pot life (hr)	5°C	10°C	20°C	30°C
	16	12	8	6
Thinner/Cleaner	Thinner No.32, Other thinner approved by Kansai Paint Marine Co., Ltd.			
	Maximum allowable addition 20% by weight			
Guiding data airless spray				
Pressure at nozzle	10 - 15 Mpa (100 - 150 kg/cm ²)			
Nozzle tip	GRACO 617/619 or equivalent (0.43 - 0.48 mm orifice)			

Drying time

	5°C	10°C	20°C	30°C
Surface dry	5 min	3 min	2 min	1 min
Cured	-	-	-	-
Dry to recoat, minimum	6 hr	5 hr	3 hr	2 hr
Dry to recoat, maximum	-	-	-	-



Typical paint system

SD Zinc 100QD 1 x 25 μ m (Dry film thickness - measured on a smooth steel panel)

Storage

The product must be stored indoor condition without moisture and in accordance with national regulations. Storage conditions are to keep the container in dry, cool, well ventilated space and away from source of heat and ignition.

Fire Services Act (Japan)	Base	Dangerous Materials Class 4 Flammable Liquids / Group 1 Petroleums
	Liquid	Dangerous Materials Class 4 Flammable Liquids / Group 1 Petroleums

Shelf life 6 months at room temperature
Material over shelf life may be used subject to inspection.
It should be consulted by our specialists.

For the other detailed information, please refer to the Safety Data Sheet (SDS).

Handling

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

Packing size

20 kg unit: Base 17.2 kg / Hardener 2.8 kg

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, please refer to the Safety Data Sheet (SDS).

Disclaimer

The information given on this technical data sheet is to the best of our knowledge and accurate at the time of printing. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.
The information contained on this data sheet is subject to modification at any time due to our policy of modification at any time due to our policy of modification and product development.
