JDGuard4433 ZP

Product description

This is a two component amine cured epoxy coating. It is a fast drying, zinc phosphate pigmented, high solids, high build product. Specially designed for new construction where short dry to handle and over coating times are required. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric environments.
Suitable for properly prepared carbon steel substrates. It can be applied at sub zero surface temperatures.

Typical use

Suitable for structural steel and piping to be exposed to highly corrosive environments, C5I or C5M (ISO 12944-2).
Recommended for offshore environments, refineries, power plants, bridges, buildings and mining equipment.

Colours

grey, red

Product date

Property	Test/Standard	Description
Solids by volume	ISO 3233	74±2%
Gloss level（GU60°）	ISO 2813	matt（0-35）
Flash point	ISO 3679 Method 1	32℃
Density	calculated	1.6Kg/L
VOC-China	GB/T23985-2009(ISO11890-1)	225g/L

The provided data is typical for factory produced products, subject to slight variation depending on colour. All data is valid for mixed paint.
Gloss description: According to Jindun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	75 µm - 250µm
Wet film thickness	85 µm - 333µm
Theoretial spreading rate	9.9 m^2/L - 3 m^2/L

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Shop primed steel	Dry, clean and intact shop primer.	Abrasive swept or alternatively blasted to Sa 2 (ISO 8501-1) of at least 70 % of the surface.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non- metallic abrasive leaving a clean, rough and even pattern.

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

Application

Application methods

The product can be applied by

Spray: Use airless spray.

Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Roller: May be used for small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.

Product mixing ratio（by weight)

JDGuard4433 ZP	Comp A	6.7 part(s)
JDGuard4433 ZP	Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jindun Thinner No. 103

Guiding date for airless spray

Nozzle tip (inch/1000):	17-23
Pressure at nozzle (minimum):	150 bar/2100 psi

Drying and Curing time

Substrate temperature	-5℃	0℃	5℃	10℃	23℃	40℃
Surface (touch) dry	16 h	11 h	4 h	2 h	1 h	30 min
Walk-on-dry	38 h	24 h	10 h	6 h	3 h	2 h
Dry to over coat, minimum	24 h	14 h	8 h	4 h	2 h	1 h
Dried/ cured for service		21 d	13 d	8 d	4 d	3 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physicaldamage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Induction time and Pot life

Paint temperature	**23℃**
Pot life	2h

Heat resistance

	Temperature	
	Continuous	**Peak**
Dry, atmospheric	120℃	140

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jindun for specific system recommendation.

Previous coat: epoxy, epoxy mastic, zinc epoxy, zinc silicate

Subsequent coat: acrylic, epoxy, polyurethane, polysiloxane

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray 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.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint.

Disclaimer

The information in this document is given to the best of Jindun's knowledge, based on laboratory testing and practical experience. Jindun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jindun's control. Jindun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jindun reserves the right to change the given data without further notice.

Users should always consult Jindun for specific guidance on the general suitability of this product for their needs and specific application practices.