Technical Data Sheet

金盾涂料 KINDON PAINT

C53-32 Iron Red Alkyd Anti-corrosive Primer

Product description

This product is an anti-corrosive primer based on a medium- to long-oil drying vegetable oil-modified alkyd resin, with low toxicity, good adhesion and anti-rust properties, and good durability under general climatic conditions.

Typical use

Used as a primer for steel structures above the waterline of ships and for onshore steel structures.

Suitable for use as an anti-corrosive primer in C1-C3 corrosive environments.

Colours

Iron red, grey

Product data

	Test/Standard	Description
Gloss	ISO 2813	Matt, flat
Density	Theoretical value	Approx. 1.3Kg/L
Solids by volume	ISO3233	(43±2)%
Flash point	ISO 3679 Method 1	31℃

The data listed are based on laboratory tests and may vary slightly in actual factory batch production.

All data are valid for white paint; data for other colours may vary slightly.

Film thickness per coat

Typical recommended specification range

Dry film thickness	40-80um
Wet film thickness	93um-186um
Theoretical spreading rate	0.12Kg/m^2 - 0.24Kg/m^2

Surface preparation

All surfaces to be coated shall be clean, dry and free from contamination, and shall be assessed and prepared in accordance with ISO 8504.

Bare steel: Blast cleaning to Sa 2.5 (ISO 8501-1:2007). Depending on the environment of the non-immersed area, power tool cleaning is acceptable, but shall achieve at least St 2 (ISO 8501-1:2007).

Steel coated with shop primer: Clean, dry, intact and approved shop primer.

Painted surfaces: Apply only to clean, dry and intact compatible primers.

Application

Application methods

The product can be applied by

Spray:	Use air spray or airless spray.
Brush:	Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness

Mixing **Single component, stir well before use**

Thinner/Cleaning solvent

Thinner: Jindun Thinner No. 104

Guiding parameters for airless spray

Nozzle tip (mm):	0.4~0.5
Nozzle pressure (MPa):	15～18

Drying and curing time

Substrate temperature	0℃	5℃	10℃	23℃	40℃
Surface (touch) dry (40μm)	8 hours	6 hours	4 hours	2 hours	1.0 hours
Through dry (40μm)	48 hours	36 hours	30 hours	24 hours	10 hours
Dry to over coat, minimum	48 hours	36 hours	30 hours	24 hours	10 hours

For maximum overcoating intervals, please consult Jindun technical personnel.

The drying and curing times are measured based on temperature and relative humidity, with relative humidity below 85% and dry film thickness within the average dry film thickness range.

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 footprints, marks or other physical damage.

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

Pot life

Paint temperature	23℃
Pot life	5 hours

Heat resistance

Temperature

	Continuous	Peak
Dry, atmospheric	120℃	130℃

The peak temperature can be tolerated for a maximum of one hour.

At the above temperatures, the protective properties are not affected. However, the appearance may be affected.

Product compatibility

Depending on the actual exposure conditions in service, this product can be used in combination with different primers and topcoats. Some reference systems are shown below. For specific systems, please contact Jindun.

C53-32 Iron Red Alkyd Anti-corrosive Primer 2×40μm (DFT)

JDALkyd332 Alkyd Topcoat (Various Colours) 2×30μm (DFT)

Other systems can be specified according to specific conditions; please consult the Jindun representative.

Packaging (typical)

Weight	Size of containers
25 kg	20 litres

Application conditions

Painting work should normally be carried out under climatic conditions of above 5℃, with the substrate temperature more than 3℃ above the dew point and relative humidity below 85%.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23℃

12 months

Caution

This product is for professional use only. Applicators shall be trained, experienced and capable, equipped with suitable equipment, and shall mix, stir and apply the coating in accordance with Jindun's technical documentation. Appropriate personal protective equipment shall be worn during operation. This guideline is based on current product information; any application adjustment made to suit site conditions must be approved in advance by an authorised Jindun representative before it is carried out.

Health and safety

Please observe the precautionary notices on the container. Use under well ventilated conditions. Avoid inhaling spray mist. Avoid skin contact,

Spillage on the skin should immediately be removed with a suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Colour variation

When applicable, products primarily intended for use as primers or antifoulings may show slight colour variations from batch to batch. Likewise, fading and chalking may occur when exposed to sunlight and weathering.

Disclaimer

The information provided in this data sheet is based entirely on the knowledge gained in our laboratory and in practice. Jindun products are regarded as semi-finished goods, and the use of the products is generally beyond our control. Jindun therefore guarantees only the quality of the product itself. Products may be adjusted appropriately to comply with local regulations, and we reserve the right to modify this data sheet without prior notice. Users should consult Jindun for specific guidance on the suitability of the product for their own needs and specific applications.