# JDThane 7106

## Product description

This is a two component chemically curing aliphatic acrylic polyurethane coating. It has a glossy finish with very good gloss retention. It is a high solids product. The product has good application properties with low dry spray. To be used as topcoat in atmospheric environments.

## Typical use

Marine:
Recommended for topside, deck and superstructure.

Protective:
Recommended for offshore environments, refineries, power plants, bridges and buildings. Suitable for a wide range of industrial structures.

## Approvals and certificates

Obtained the certificate of works approval of China Classification Society.

## Colours

according to colour card

## Product date

| Property | Test/Standard | Description |
|---|---|---|
| Solids by volume | ISO 3233 | 63±2% |
| Gloss level（GU60°） | ISO 2813 | gloss（70-85） |
| Flash point | ISO 3679 Method 1 | 30℃ |
| Density | calculated | 1.4Kg/L |
| VOC-China | GB/T23985-2009(ISO11890-1) | 325g/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.
The VOC values refer to white colour.

## Film thickness per coat

**Typical recommended specification range**

| | |
|---|---|
| Dry film thickness | 60μm - 100μm |
| Wet film thickness | 95μm - 160μm |
| Theoretial spreading rate | 0.13Kg/m$^2$- 0.22Kg/m$^2$ |

Bright colours may need film thickness in the high end of the recommended specification range to achieve opacity.
Special effect colours may have diverging specification range.

## 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 |
| Coated surfaces | Clean, dry and undamaged compatible coating | Clean, dry and undamaged compatible coating |

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 air spray or 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)

| | | |
|---|---|---|
| JDThane 7106 | Comp A | 10.5 part(s) |
| JDThane 7106 | Comp B | 1 part(s) |

### Thinner/Cleaning solvent

Thinner: Jindun Thinner No. 109

Thinning is not normally required. Consult the local representative for advice during application in extreme conditions. Do not thin more than allowed by local environmental legislation.

### Guiding date for airless spray

| | |
|---|---|
| Nozzle tip (inch/1000): | 13-19 |
| Pressure at nozzle (minimum): | 150 bar/2100 psi |

### Guiding date for air spray

| | |
|---|---|
| Nozzle tip : | HVLP: 11-19 (inch/1000) / Pressure pot: 1.1-1.9 (mm) |
| Pressure at nozzle (minimum): | HVLP: 2.1 bar/30 psi / Pressure pot: 2.1 bar/30 psi |

## Drying and Curing time

| Substrate temperature | 5℃ | 10℃ | 23℃ | 40℃ |
|---|---|---|---|---|
| Surface (touch) dry | 16h | 6h | 3.5h | 2h |
| Walk-on-dry | 24h | 14h | 7h | 4h |
| Dry to over coat, minimum | 24h | 14h | 7h | 4h |
| Dried/cured for service | 21d | 14d | 7d | 3d |

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℃** | 40℃ |
|---|---|---|
| Pot life | 1.5h | 50min |

## 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, zinc epoxy, epoxy mastic, polyurethane

## Packaging(typical)

| | | Weight (Kg) | Size of containers (litres) |
|---|---|---|---|
| JDThane 7106 | Comp A | 18.9 | 20 |
| JDThane 7106 | Comp B | 1.8 | 3 |

The volume stated is for factory made colours.

## 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 °C

| | | | |
|---|---|---|---|
| JDThane 7106 | Comp A | 48 | month(s) |
| JDThane 7106 | Comp B | 48 | month(s) |

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

## Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jindun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jindun representative for approval before commencing the work.

## 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.