

## Hardtop XPL

### Product description

This is a two component chemically curing aliphatic acrylic polyurethane coating. It has a matt finish with good color retention. 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 bridges and buildings. Suitable for a wide range of industrial structures.

### Approvals and certificates

Certified in accordance with IMO 2010 FTP code – Low Flame Spread

Consult your Jotun representative for details.

Additional certificates and approvals may be available on request.

### Colors

according to color card and Multicolor Industry tinting system (MCI)

### Product data

| Property              | Test/Standard                    | Description   |              |
|-----------------------|----------------------------------|---------------|--------------|
| Solids by volume      | ISO 3233                         | 58 ± 2 %      |              |
| Gloss level (GU 60 °) | ISO 2813                         | matt (0-35)   |              |
| Flash point           | ISO 3679 Method 1                | 82 °F (28 °C) |              |
| Density               | calculated                       | 1.4 kg/l      |              |
| Region                | Regulation                       | Test Standard | VOC Value    |
| US                    | CARB(SCM)2020 / SCAQMD rule 1113 | Calculated    | 2.96 lbs/gal |

The provided data is typical for factory produced products, subject to slight variation depending on color.

Gloss description: According to Jotun Performance Coatings' definition.

## Film thickness per coat

### Typical recommended specification range

|                            |                                                   |                                                  |
|----------------------------|---------------------------------------------------|--------------------------------------------------|
| Dry film thickness         | 1.6 mils (40 µm)                                  | 3 mils (80 µm)                                   |
| Wet film thickness         | 2.8 mils (70 µm)                                  | 6 mils (140 µm)                                  |
| Theoretical spreading rate | 590 ft <sup>2</sup> /gal (14.5 m <sup>2</sup> /l) | 300 ft <sup>2</sup> /gal (7.3 m <sup>2</sup> /l) |

Bright colors may need film thickness in the high end of the recommended specification range to achieve opacity.

## Surface preparation

### Surface preparation summary table

| Substrate       | Surface preparation                         |                                             |
|-----------------|---------------------------------------------|---------------------------------------------|
|                 | Minimum                                     | Recommended                                 |
| Coated surfaces | Clean, dry and undamaged compatible coating | Clean, dry and undamaged compatible coating |

## Application

### Application methods

The product can be applied by

|         |                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------|
| Spray:  | Use airless spray or conventional 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.                                                                                    |

### Product mixing ratio (by volume)

|                    |            |
|--------------------|------------|
| Hardtop XPL Comp A | 10 part(s) |
| Hardtop XP Comp B  | 1 part(s)  |

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 10 / Jotun Thinner No. 63

Jotun Thinner No. 63: Max. 5%

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.

**Note:** Korean VOC regulation "Korea Clean Air Conservation Act" and its corresponding thinning limit will prevail over recommended thinning volumes.

### Guiding data for airless spray

Nozzle tip (inch/1000): 13-19

Pressure at nozzle (minimum): 150 bar/2100 psi

## Drying and Curing time

| Substrate temperature       | 41 °F | 50 °F | 73 °F | 104 °F |
|-----------------------------|-------|-------|-------|--------|
| Surface (touch) dry         | 7 h   | 5 h   | 3 h   | 30 min |
| Walk-on-dry                 | 24 h  | 12 h  | 5 h   | 3 h    |
| Dried to over coat, minimum | 24 h  | 12 h  | 5 h   | 3 h    |
| Dried/cured for service     | 21 d  | 14 d  | 7 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 physical damage.

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 | 73 °F |
|-------------------|-------|
| Pot life          | 1.5 h |

## Heat resistance

|                  | Temperature |        |
|------------------|-------------|--------|
|                  | Continuous  | Peak   |
| Dry, atmospheric | 248 °F      | 284 °F |

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 Jotun for specific system recommendation.

Previous coat: epoxy, zinc epoxy, epoxy mastic, polyurethane  
Subsequent coat: polyurethane

## Packaging (typical)

|                    | Volume<br>(liters) | Size of containers<br>(liters) |
|--------------------|--------------------|--------------------------------|
| Hardtop XPL Comp A | 4.55 / 18.2        | 5 / 20                         |
| Hardtop XP Comp B  | 0.45 / 1.8         | 1 / 5                          |

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

## Storage

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

### Shelf life at 73°F (23 °C)

Hardtop XPL Comp A 48 month(s)  
Hardtop XP 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.

## Environmental Documentation

This product can contribute to Green Building Standard credits. Please refer to Jotun.com for more information or contact your local Jotun representative.

Environmental Product Declaration (EPD) is available at [www.epd-norge.no](http://www.epd-norge.no)

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## Caution

This product is for professional use only. The applicator and operator shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators should 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 Jotun representative for approval before commencing the work.

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## Health and safety

Please observe the precautionary notices displayed in 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 sought medical attention immediately.

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## Color 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. Contact your local Jotun office for further information.

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## Disclaimer

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

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

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.