

Jotatop BC800

Product description

This is a two component chemically curing aliphatic polyurethane coating. It is an abrasion resistant high solids product with excellent erosion resistance and elasticity. It has excellent weatherability. To be used as topcoat in atmospheric environments. Developed for use on glass fiber reinforced epoxy and polyester.

Typical use

Specially designed for protection of wind turbine rotor blades onshore and offshore.

Approvals and certificates

Rain erosion tested according to ASTM G73-10

Additional certificates and approvals may be available on request.

Colors

RAL 9010, RAL 7035
selected signal colors

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	65 ± 2 %
Solids by weight	calculated	75 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	84 °F (29 °C)
Density	calculated	1.3 kg/l

Region	Regulation	Test Standard	VOC Value
--------	------------	---------------	-----------

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	2.6 mils (65 µm)	6 mils (150 µm)
Wet film thickness	4 mils (100 µm)	9 mils (225 µm)
Theoretical spreading rate	410 ft ² /gal (10 m ² /l)	180 ft ² /gal (4.3 m ² /l)
Theoretical spreading rate		- 180 ft ² /gal (4.3 m ² /l)

If specified DFT exceeds 5 mils (125 µm), it is necessary to apply this as two coats, wet-on-wet. Recommended DFT for optimal erosion resistance is 5.2 mils (130 µm). This is achievable by spraying two coats at 4 mils (100 µm) WFT wet-on-wet.

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
Composite	The surface shall be hand or machine abraded to impart a scratch pattern to the surface.	The surface shall be hand or machine abraded to impart a scratch pattern to the surface.

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. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Product mixing ratio (by volume)

Jotatop BC800 Comp A	10 part(s)
Jotatop BC800 Comp B	3.6 part(s)

Product mixing ratio (by weight)

Jotatop BC800 Comp A	10 part(s)
Jotatop BC800 Comp B	3 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 26 / Jotun Thinner No. 10

Jotun Thinner No. 10: can be used where aromatic solvents are accepted.

Guiding data for airless spray

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

Drying and Curing time

Temperatures:
-10°C = 14°F / -5°C = 23°F / 0°C = 32°F / 5°C = 41°F / 10°C = 50°F / 15°C = 59°F / 23°C = 73°F / 35°C = 95°F / 40°C = 104°F / 100°C = 212°F

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	10 h	7 h	2 h	1 h
Dry to handle	18 h	12 h	4 h	2 h
Dried/cured for service	14 d	10 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.

Note: If overcoating interval exceeds dry to handle time, sanding is required prior to re-coating.

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

Dry to handle: Minimum time before the coated objects can be handled without physical damage.

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

Induction time and Pot life

Temperatures: 15°C = 59°F / 23°C = 73°F

Paint temperature	23 °C
Pot life	45 min

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C

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, epoxy mastic, polyurethane
Subsequent coat:	polyurethane

Packaging (typical)

	Weight	Size of containers (liters)
Jotatop BC800 Comp A	3.6 / 18.6 kg	5 / 20
Jotatop BC800 Comp B	1.1 / 5.6 kg	1 / 5

Available in drums on request.

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)

Jotatop BC800 Comp A	24 month(s)
Jotatop BC800 Comp B	24 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.

Note

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 Jotun'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 Jotun 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.

Color variation

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

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

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 given data 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.