Technical Data Sheet

Barrier 80 XT

Product description

Barrier 80 XT is a high solids, high zinc dust primer designed for atmospheric environment facing aggressive corrosion exposure. It is a two component polyamine cured zinc rich epoxy coating powered by Vitrumbond™ Technology. Barrier 80 XT complies with ASTM D520 Type II zinc dust.

Typical use

Suitable for structural steel exposed to corrosive environments in atmospheric conditions. Recommended for most areas in Protective new construction, large-scale maintenance projects and Marine newbuilding, on a properly prepared substrate. Abrasive blasting is recommended to achieve maximum adhesion and durability of the coating.

Approvals and certificates

Pre-qualified in accordance with NORSOK M-501 in selected systems.
Tested in accordance to ISO 12944, up to CX, as a primer in selected system.
Complies with RCSC Class B, Appendix A (slip coefficient and resistance to tension creep)
Compliance to SSPC Paint 20, Level 2, Type II

Additional certificates and approvals may be available on request.

Colours

grey

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	70 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	27 °C
Density	calculated	2.59 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	282 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	282 g/l
EU	European Paint Directive 2004/42/CE	Calculated	282 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	282 g/l
Korea	Korea Clean Air Conservation Act	Calculated	282 g/l

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

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

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	60	-	125	µm
Wet film thickness	88	-	179	µm
Theoretical spreading rate	11.7	-	5.6	m²/l

This product can be applied up to 50% higher than the maximum specified film thickness in localized areas without loss of technical properties.

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 3 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Shop primed steel	Clean, dry and undamaged approved shop primer (ISO 12944-4 5.4)	Sweep blasted or alternatively blasted to Sa 2 (ISO 8501-1) of at least 70 % of the surface.

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. Care must be taken to achieve the specified dry film thickness.

Refer to the Application Guide (AG) for additional information.

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Product mixing ratio (by volume)

Barrier 80 XT Comp A	5 part(s)
Barrier 80 XT Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	1 h	30 min	20 min	15 min
Walk-on-dry	6 h	5 h	2 h	1 h
Dry to over coat, minimum	6 h	5 h	2 h	1 h
Dried/cured for service	10 d	7 d	5 d	2 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	23 °C
Induction time	10 min
Pot life	6 h

Heat resistance

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

Peak temperature duration max. 1 hour.

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

Product compatibility

Previous coat:	inorganic zinc shop primer
Subsequent coat:	epoxy, epoxy mastic, epoxy Passive Fire Protection

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Barrier 80 XT Comp A	3.75 / 7.5	5 / 10
Barrier 80 XT Comp B	0.75 / 1.5	1 / 3

The volume stated is for factory made colours. 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 23 °C

Barrier 80 XT Comp A	24 month(s)
Barrier 80 XT 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.

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.

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.

Colour variation

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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.

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.

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