Barrier Smart Pack

Product description

This is a surface tolerant two component ceramically reinforced polyamine cured zinc rich epoxy coating. 1:1 mixing ratio for easy use and reduced wastage. Designed for brush and roller application, makes it ideal for maintenance and touch-up/repairs during outfitting in new construction projects. Suitable for carbon steel, repair of inorganic zinc silicate coating and damaged galvanised steel substrates. It conforms to the compositional requirements of SSPC paint 20, level 2 and ISO 12944-5. This product complies with ASTM D520 type II zinc dust.

Typical use

Protective:
Suitable for structural steel and piping exposed in corrosivity categories up to CX (ISO 12944-2). Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel. Specially designed as a primer for coating systems where extended durability is required.

Approvals and certificates

Pre-qualified in accordance with NORSOK M-501 in selected systems

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

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	35 °C
Density	calculated	2.4 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	301 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	301 g/l
EU	European Paint Directive 2004/42/CE	Calculated	301 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	301 g/l
Korea	Korea Clean Air Conservation Act	KS M ISO 11890-1	283 g/l
China	Mandatory national standard of China	GB 30981.2-2025	292 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	85	-	180	µm
Theoretical spreading rate	11.7	-	5.6	m²/l

This product can be applied up to 50 % higher than maximum specified film thickness 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, and will provide typical film thickness in one coat. For recommendation on application equipment, see application guide.
Roller:	Recommended, and will provide typical film thickness in one coat. For recommendation on application equipment, see application guide.

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Product mixing ratio (by volume)

Barrier Smart Pack Comp A	1 part(s)
Barrier Smart Pack Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Guiding data for airless spray

Nozzle tip (inch/1000): 15-19

Pressure at nozzle (minimum): 120 bar/1740 psi

Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	2 h	1 h	30 min	20 min	15 min
Walk-on-dry	24 h	10 h	6 h	2.5 h	1 h
Dry to over coat, minimum	24 h	10 h	6 h	2.5 h	1 h
Dried/cured for service	21 d	21 d	7 d	1 d	1 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

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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:	inorganic zinc shop primer
Subsequent coat:	epoxy, epoxy mastic

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Barrier Smart Pack Comp A	3 / 5	5 / 10
Barrier Smart Pack Comp B	3 / 5	5 / 10

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 Smart Pack Comp A	24 month(s)
Barrier Smart Pack 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.

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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.

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

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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