

# Jotacote Universal S110 WG

# **Product description**

This is a two component polyamine cured high build epoxy coating. Specially designed as a universal, all round, new building coating where low VOC emission is required and where long-term anticorrosion performance is expected. It is HAPs free and compliant with Korean Clean Air Conservation Act. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared aluminium, carbon steel, galvanised steel, shop primed steel and stainless steel substrate.

#### **Typical use**

Marine: Recommended for exterior and interior areas, including outside hulls, superstructures, decks and cargo holds.

#### **Approvals and certificates**

Certified in accordance with IMO Res.215(82) - PSPC Water Ballast Tanks

Additional certificates and approvals may be available on request.

#### Colours

buff, light red, red, grey

# **Product data**

Property	Test/Standard	Des	cription
Solids by volume	ISO 3233		95±2%
Gloss level (GU 60 °)	ISO 2813	gloss	(70-85)
Flash point	ISO 3679 Method 1	8	81 °C
Density	calculated	1.5 kg/l	
Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	41 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	41 g/l
Korea	Korea Clean Air Conservation Act	KS M ISO 11890-1	44 g/l
Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	41 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	41 g/l
EU	European Paint Directive 2004/42/CE	Calculated	41 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	41 g/l
Korea	Korea Clean Air Conservation Act	Calculated	41 g/l
The provided data is typi	ical for factory produced products, subject to s	light variation dependin	ig on colour.

Gloss description: According to Jotun Performance Coatings' definition.

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

### Technical Data Sheet Jotacote Universal S110 WG



This product is a solvent free epoxy primer in South Korea and China according to Korea Clean Air Conservation Act and T/CNCIA 01005-2018 Definition of Low VOCs High Solids, Ultra-High Solids and Solvent-Free Epoxy Coatings.

## Film thickness per coat

Typical recommended specification range

Dry film thickness	150	-	500	μm
Wet film thickness	158	-	526	μm
Theoretical spreading rate	6.3	-	1.9	m²/l

## Surface preparation

#### Surface preparation summary table

Surface preparation		
Substrate	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Aluminium	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non- metallic abrasive leaving a clean, rough and even pattern.
Shop primed steel	Dry, clean and intact shop primer.	Sweep blasted or alternatively blasted to Sa 2 (ISO 8501-1) of at least 70 % of the surface.
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Coated surfaces	Clean, dry and undamaged compatible coating	Sa 2½ (ISO 8501-1)

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

### **Application**

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#### **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 for small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.		

#### Product mixing ratio (by volume)

Jotacote Universal S110 WG Comp A	2.5 part(s)
Jotacote Universal S110 WG Comp B	1 part(s)

#### **Thinner/Cleaning solvent**

Thinner:	Jotun Thinner No. 17
Cleaning solvent:	Jotun Thinner No. 17

When thinners are used as a cleaning solvent, the use must be in accordance with prevailing local regulations.

#### Guiding data for airless spray

Nozzle tip (inch/1000):	17-21
Pressure at nozzle (minimum):	180 bar / 2600 psi

# **Drying and Curing time**

Substrate temperature	-5 °C	0 °C	5 °C	10 °C
Surface (touch) dry	52 h	38 h	16 h	13 h
Walk-on-dry	72 h	48 h	20 h	15 h
Dry to over coat, minimum	68 h	45 h	18 h	14 h
Dried/cured for immersion	7 d	4 d	3 d	2 d
Dried/cured for service		21 d	14 d	10 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 immersion: Minimum time before the coating can be permanently immersed in sea water.



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	5 °C
Pot life	1.5 h

Reduced at higher temperatures, and with increased mixing volumes.

### **Heat resistance**

	Temperature		
	Continuous	Peak	
Dry, atmospheric	120 °C	140 °C	
Immersed, sea water	50 °C	60 °C	

Peak temperature duration max. 1 hour.

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

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

### **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 silicate shop primer, epoxy, epoxy mastic, zinc epoxySubsequent coat:acrylic, alkyd, epoxy, polyurethane, polysiloxane, epoxy mastic, vinyl epoxy

# **Packaging (typical)**

	Volume	Size of containers
	(litres)	(litres)
Jotacote Universal S110 WG Comp A	12.5	20
Jotacote Universal S110 WG Comp B	5	5

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

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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

Jotacote Universal S110 WG Comp A Jotacote Universal S110 WG Comp B 12 month(s) 12 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 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.

### **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 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.

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