SeaLion Resilient

Product description

This is a two component epoxy polysiloxane fouling release coating. It is biocide free and provides excellent abrasion, scratch resistance and hull performance. This is achieved by an extremely hard, low friction surface reducing hull deterioration and speed loss. To be used as finish coat in immersed environments only. Suitable on approved primers on carbon steel and aluminium substrates.

Typical use

Marine:
Recommended for underwater hull in newbuilding and drydocking. Specially designed as a premium solution for vessels with short docking intervals with low to high speed or activity. It has high gloss and excellent colour stability providing long term aesthetics appearance.

Typical trade

Designed for world wide and coastal trade. Specially suitable for icy waters and trades with high risk of mechanical damage.

Approvals and certificates

Compliant with IMO Antifouling System Convention AFS/CONF/26.

Additional certificates and approvals may be available on request.

Colours

red, black, blue

Product data

Property	Test/Standard	Description
STANDARD GRADE		
Solids by volume	ISO 3233	83 ± 2 %
Flash point	ISO 3679 Method 1	58 °C
Density	calculated	1.2 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	161 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	67 g/l
VOC-China	GB/T 23985-2009 (tested)	121 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested) (Max. thinning ratio included)	67 g/l
WINTER GRADE		
Solids by volume	ISO 3233	83 ± 2 %
Flash point	ISO 3679 Method 1	58 °C
Density	calculated	1.2 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	161 g/l

VOC-EU	IED (2010/75/EU) (theoretical)	67 g/l
VOC-China	GB/T 23985-2009 (tested)	121 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested)	67 g/l

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

Film thickness per coat

Typical recommended specification range

STANDARD GRADE

Dry film thickness	100	-	150	µm
Wet film thickness	120	-	180	µm
Theoretical spreading rate	8.4	-	5.6	m²/l

WINTER GRADE

Dry film thickness	100	-	150	µm
Wet film thickness	120	-	180	µm
Theoretical spreading rate	8.4	-	5.6	m²/l

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

	Surface preparation	
Substrate	**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.
Brush:	May be used. 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.

Spray dust during application is irritating to eyes and it is recommended to use goggles to avoid irritating exposure.

Product mixing ratio (by volume)

STANDARD GRADE

SeaLion Resilient Comp A	5.6 part(s)
SeaLion Resilient Comp B	1 part(s)

WINTER GRADE

SeaLion Resilient Comp A	5.6 part(s)
SeaLion Resilient Wintergrade Comp B	1 part(s)

Thinner/Cleaning solvent

Do not add thinner.

Cleaning solvent: Jotun Thinner No. 7

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):	13-19
Pressure at nozzle (minimum):	210 bar/3000 psi

Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	23 °C	40 °C
STANDARD GRADE					
Surface (touch) dry			12 h	5 h	3 h
Dried/cured for immersion			28 h	24 h	20 h
WINTER GRADE					
Surface (touch) dry	6 h	5 h	4 h	3 h	
Dried/cured for immersion	32 h	28 h	24 h	20 h	

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.

Relative humidity during application and drying should be minimum 30 %. Lower relative humidity (RH) will slow down the curing speed.

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

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

Induction time and Pot life

Paint temperature	23 °C
STANDARD GRADE	
Pot life	5 h
WINTER GRADE	
Pot life	2 h

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

Recommended anticorrosive primers are Jotacote Universal or Jotamastic 90.

Recommended type of primer

Anticorrosive primer system suitable for purpose. Recommended tie coat for the subsequent antifouling coat is:
Safeguard Universal ES
Safeguard Plus

Packaging (typical)

	Volume (litres)	Size of containers (litres)
SeaLion Resilient Comp A	15	20
SeaLion Resilient Comp B	2.7	3
SeaLion Resilient Wintergrade Comp B	2.7	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, 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

SeaLion Resilient Comp A	12 month(s)
SeaLion Resilient Comp B	18 month(s)
SeaLion Resilient Wintergrade Comp B	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 may fade and 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., and application quality. 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.