

Osmoshell

Product description

This is a two component epoxy coating. It is a high solids, high build, glass flake reinforced product. It provides very high structural resistance and superior adhesion on fibre glass substrates. It has excellent abrasion and water resistance.

Typical use

Specially designed for the complete or partial hull treatment for osmosis with future protection.

Colours

light green

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	94 ± 2 %
Flash point	ISO 3679 Method 1	130 °C
Density	calculated	1.5 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	80 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

Dry film thickness	900 - 1100 µm
Wet film thickness	960 - 1170 µm

Surface preparation

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

Surfaces with grease, oil or other contamination, wash with recommended Jotun Yachting detergent. For best result, the substrate should be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Composite	Remove the gelcoat layer, fillers and any existing coating down to fibre glass substrate by sanding, grinding or other suitable method. Surface to be high pressure fresh water washed and sanded with coarse grade (min. P40) after washing in order to ensure suitable surface roughness for best coating adhesion. Carefully clean and degrease with high pressure fresh water several times. It is advisable at least once a week and let the exposed surface to dry until moisture is below 1% in weight.	Remove the gelcoat layer, fillers and any existing coating down to fibre glass substrate by dry or wet blasting. Carefully clean and degrease with high pressure fresh water several times. It is advisable at least once a week and let the exposed surface to dry until moisture is below 1% in weight.
Lead	If necessary degrease with suitable alkaline detergent to remove any wax, oil, grease or other contaminants. High pressure fresh water wash the entire area to be coated. Surface shall be hand or machine abraded with non-metallic abrasives or bonded fiber machine or hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface.	If necessary degrease with suitable alkaline detergent to remove any wax, oil, grease or other contaminants. High pressure fresh water wash the entire area to be coated. Surface shall be abrasive blast cleaned to achieve a surface profile using approved nonmetallic abrasive media which is suitable to achieve a sharp and angular surface profile.

Application

Application methods

The product can be applied by

Spatula: Recommended. Use tooth and smooth spatula.

Product mixing ratio (by volume)

Osmoshell Comp A	2 part(s)
Osmoshell Comp B	1 part(s)

Thinner/Cleaning solvent

Do not add thinner.

Cleaning solvent: Jotun Thinner No. 17

For cleaning of equipment only.

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

Drying and Curing time

Substrate temperature	10 °C	23 °C	40 °C
Surface (touch) dry	14 h	8 h	2 h
Dry to over coat, minimum	35 h	20 h	8 h
Dry to over coat, maximum, atmospheric	72 h	72 h	48 h
Dried/cured for service	14 d	7 d	3 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

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

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dry to over coat, maximum, atmospheric: The longest time allowed 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	15 min
Pot life	30 min

Reduced at higher temperatures

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Osmoshell Comp A	1.67	3
Osmoshell Comp B	0.83	1

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

Osmoshell Comp A	36 month(s)
Osmoshell Comp B	36 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.

Disposal of waste

N/A

Caution

The product is suitable for both professional and consumer application. 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.