

Gelshield Plus

Osmosis

Solventless Epoxy for Osmosis Treatment



PRODUCT DESCRIPTION

High build, solventless epoxy for treatment of osmosis.

- * Available in solid green and solid blue.
- * Contrasting colours (blue and green) facilitate self-on-self application.
- * At least 150 microns achieved per coat.
- * Contains no harmful solvents to migrate into the hull and cause reblistering.
- * Wide overcoating windows.

PRODUCT INFORMATION

Colour	YAA222-Green -Blue Base -YAA222. Curing Agents, YAA221-Blue, YAA220-Green (when base and curing agent mixed).
Finish	High sheen
Specific Gravity	1.125
Volume Solids	100%
Mix Ratio	2:1 by volume (as supplied)
Typical Shelf Life	2 yrs
VOC (As Supplied)	0 g/lit
Unit Size	2.25 Lt

DRYING/OVERCOATING INFORMATION

	Drying			
	10°C (50°F)	15°C (59°F)	23°C (73°F)	35°C (95°F)
Pot Life	45 mins	35 mins	25 mins	15 mins

Note: Pot lives quoted are the approximate working lives for a litre mixture poured into a flat tray. It is important to pour the mixed product immediately into a flat tray to ensure the maximum possible working life is achieved.

Overcoated By	Overcoating							
	Substrate Temperature							
	10°C (50°F)		15°C (59°F)		23°C (73°F)		35°C (95°F)	
Min	Max	Min	Max	Min	Max	Min	Max	
Gelshield 200	24 hrs	7 days	12 hrs	7 days	12 hrs	7 days	8 hrs	24 hrs
Gelshield Plus	16 hrs	4 days	7 hrs	4 days	4 hrs	2 days	1.5 hrs	24 hrs
Interfill 830	16 hrs	4 days	7 hrs	4 days	4 hrs	2 days	1.5 hrs	24 hrs
Interfill 833	16 hrs	4 days	7 hrs	4 days	4 hrs	2 days	2 hrs	24 hrs
Interprotect (Professional)	24 hrs	7 days	12 hrs	7 days	12 hrs	7 days	8 hrs	24 hrs
Watertite	16 hrs	4 days	7 hrs	4 days	4 hrs	2 days	1.5 hrs	24 hrs

Note: Minimum overcoating times with self and with fillers are guidelines only. As soon as the Gelshield Plus is firm enough it can be overcoated, even if the surface is still tacky. At temperatures of 10-15°C it is recommended that the fast cure versions of Interfill 830 and Interfill 833 are used.

APPLICATION AND USE

Preparation	OSMOSIS TREATMENT: Gelcoat should be removed by blasting, or by peeling plus a light blasting. The resultant substrate should be carefully examined and professionally evaluated as chemically dry. Surface must be clean and dry prior to application of Epiglass HT9000 or Gelshield Plus. Contact International for further details.
Method	OSMOSIS TREATMENT: Apply initial coat with a thin foam roller and work into the surface using a brush. (Alternatively, Epiglass can be used as the first coat in the scheme). Lay off with a brush making sure a minimum of 150 microns wet film thickness is applied (Minimum 150 micron wet film thickness is not essential when Epiglass is used as the first coat in the scheme). Fill as required using, Interfill 830, Interfill 833 or Watertite. At temperatures of 10-15°C it is recommended that the fast cure versions of Interfill 830 and Interfill 833 are used. If filler "set" to an extent that the surface does not move under light pressure, then overcoating can proceed. Otherwise, the filler should be sanded prior to application of Gelshield Plus. Apply a further 3 coats of Gelshield Plus by roller, each coat at least 150 microns. At shorter overcoating intervals, a "wet on tacky" application technique can be employed. As soon as Gelshield Plus is firm enough it can be overcoated with itself, even if the surface is still tacky.
Hints	Mixing Stir contents of each part prior to mixing. Mix the base and curing agents of Gelshield Plus together at the specified mix ratio. Stir well before use. Pour immediately into a wide flat tray to prevent premature curing. Thinning Do not thin under any circumstances.

Please refer to your local representative or visit <http://www.yachtpaint.com> for further information.

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Cleaner Epoxy Thinners No. 7 for equipment cleaning only. Ensure equipment is cleaned before product has gelled.
Other If self-on-self overcoating times are exceeded, abrade surface thoroughly to remove gloss. The minimum overcoating times given are guidelines only. In some instances, depending on curing conditions, substrate temperature etc, the next coat may be applied faster than this. If the final coat overcoating times are exceeded, abrade with 80 grade paper before application of Gelshield 200. If cold, and before mixing, store Gelshield Plus at room temperature for 12 hours or stand in containers of warm water to warm product up to approximately 15°C. Excessive warming will severely reduce pot life. When applying by roller, laying off with a brush will aid release of any surface air. If the laminate requires re-building Epiglass resin should be used. Do not use Gelshield Plus for any laminating work. Before antifouling can be applied a tie coat of Gelshield 200 is needed.

Some Important Points

Gelshield Plus is not suitable for application direct to gelcoat. Do not use at temperatures below 10°C. If a 'wet on tacky' technique is not used, and an overnight cure is allowed between coats, care should be taken that a very thin surface film or 'amine sweat' has not formed. In the event that this does happen, it can be removed by washing with warm water with a little detergent added. Then rinse with fresh water and allow the surface to dry before proceeding with the next coat. Product temperature should be minimum 15°C/59°F and maximum 35°C/95°F. Ambient temperature should be minimum 10°C/50°F and maximum 35°C/95°F. Substrate temperature should be 3°C/5°F above dew point and maximum 35°C/95°F.

Compatibility/Substrates

Cured polyester laminates & epoxy fillers. Gelshield Plus is not suitable for application direct to gelcoat.

Number of Coats

4 (Treatment)

Coverage

(Theoretical) - 6.7 m²/lt by brush or roller
(Practical) - 6.0 m²/lt by brush or roller

Recommended DFT per coat

150 microns dry minimum/coat (by brush or roller)

Recommended WFT per coat

150 microns wet minimum/coat (by brush or roller)

Application Methods

Brush, Roller

TRANSPORTATION, STORAGE AND SAFETY INFORMATION

Storage

GENERAL INFORMATION:

Exposure to air and extremes of temperature should be avoided. For the full shelf life of Gelshield Plus to be realised ensure that between use the container is firmly closed and the temperature is between 5°C/41°F and 35°C/95°F. Keep out of direct sunlight.

TRANSPORTATION:

Gelshield Plus should be kept in securely closed containers during transport and storage.

Safety

GENERAL: Read the label safety section for Health and Safety Information, also available from our Technical Help Line.

DISPOSAL: Do not discard tins or pour paint into water courses, use the facilities provided. It is best to allow paints to harden before disposal.

Remainders of Gelshield Plus cannot be disposed of through the municipal waste route or dumped without permit. Disposal of remainders must be arranged for in consultation with the authorities.

IMPORTANT NOTES

The information given in this sheet is not intended to be exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk and we can accept no responsibility for the performance of the product or for any loss or damage (other than death or personal injury resulting from negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.