

### 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

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

### DRYING/OVERCOATING INFORMATION

#### Drying

	10°C	15°C	23°C	35°C
Pot Life	45mins	35mins	25mins	15mins

**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.

#### Overcoating Substrate Temperature

Overcoated By	10°C		15°C		23°C		35°C	
	Min	Max	Min	Max	Min	Max	Min	Max
Gelshield 200	24hrs	7days	12hrs	7days	12hrs	7days	8hrs	24hrs
Gelshield Plus	16hrs	4days	7hrs	4days	4hrs	2days	1.5hrs	24hrs
Interfill 830	16hrs	4days	7hrs	4days	4hrs	2days	1.5hrs	24hrs
Interfill 833	16hrs	4days	7hrs	4days	4hrs	2days	2hrs	24hrs
Interprotect (Professional)	24hrs	7days	12hrs	7days	12hrs	7days	8hrs	24hrs
Watertite	16hrs	4days	7hrs	4days	4hrs	2days	1.5hrs	24hrs

**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.

**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) - 6.70 (m<sup>2</sup>/lt) by brush or roller  
(Practical) - 6.00 (m<sup>2</sup>/lt) by brush or roller

## Recommended DFT

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

## Recommended WFT

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/40°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 or 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.*

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