

# IMPREGARD

2-pack solvent free Epoxy resin for fibre impregnation



The printing process may render some of the colour samples imperfectly. We recommend testing the paint before committing to a colour.

## PRODUCT DESCRIPTION

Nautix IMPREGARD is an innovated 2-pack impregnation resin developed for professional use. This resin has 2 objectives : Impregnate damaged laminates and repair fibreglass. IMPREGARD has an excellent adhesion capacity on fibreglass, carbon fibre, GRP, plywood, wood (except oily wood).

IMPREGARD can be used as first step of our osmosis treatment for composites substrates. This solvent-free epoxy coating is a resin with high-wetting/Impregnation features providing a strong barrier against moisture, and this allows the resin to migrate into the composite and create a new sheath around damaged fibres.

Slow hardening of IMPREGARD gives a wide overcoating period without sanding. Impregard is not really sensitive to amide bloom on the surface.

Associated with Nautix fillers and EPOXYGARD, IMPREGARD constitutes a very efficient osmosis treatment which requires minimal sanding for applicators.

## PRODUCT INFORMATION

Finish	Gloss
Mixing ratio (volume)	5 base / 3 hardener
Mixing ratio (weight)	100g base / 50g hardener
Colour	Transparent
Flash point	FP>93°C
Unit size	2.5kg
Typical shelf life	5 years
Cleaner	Nautix DP
Coverage	15m <sup>2</sup> /kg (planed surface), 8m <sup>2</sup> /kg ( sanded surface)

### Drying/Overcoating Information

Temperature	15°C	20°C	25°C
Pot life*	100min	60min	40min
Touch dry	8h	6h	3h
Overcoated by itself**	6h-48h	4h-36h	3h-24h
Overcoated by epoxy primer**	8h-36h	6h-24h	5h-18h
Sand after	36h	24h	18h
Dry	72h	48h	24h

d=days h=hours min=minutes

\* Pot life for a large tray

\*\* Recommended time slot for 1 layer (100-150µm wet thickness) – Please refer to Application

## TYPE OF SURFACES

- GRP / Composite /Polyester
- Marine Plywood
- Wood

## SURFACE PREPARATION

### GRP or epoxy hull

- Gel plane peeling or polyester grit blasting to abrade surface prior to treatment.
- Rinsing with fresh water & drying of laminate. Repeat it to ensure removal of any unwanted (salt, soluble residue) and moisture.
- Drying of laminate with adapted system depending on location and season: ventilation, air flow.
- Keep readings of Temperature/Humidity system records by checking systematically above and below the waterline.
- Ensure the substrate to be dried, and free of dust.
- For curative osmosis treatment : refer to the "osmosis" specification.

### Marine Plywood and wood

- The surface must be dried, degreased with Nautix SD and dust free before application
- Surface must be very dried (moisture rate < 12% )

### Technical recommendation

Structure should be dried. The risk is to capture the moisture into the structure and lead to blistering or delamination.

### Compatibility

Do apply only on rigid wood (stable structure after immersion). Regularly check structure is watertight to avoid infiltrations.

## SAFETY INFORMATION

- Work in well-ventilated area (ensure adequate ventilation during use), wear suitable protective clothing, gloves, glasses and eye/face protection. Unprotected person must be kept away from treatment area. Dispose of protective gloves and equipment after use.
- Read the label safety section for Health and Safety Information before application.

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## HINTS

- Application methods : brush, roller.
- Apply between 15 and 25°C. Temperature may go down 10°C. Check amine blush before overcoating.
- Indoor recommended application with hygrometry rate no greater than 85%.
- Do not apply when there is a chance of condensation forming on the substrate (Dew-Point) : substrate, ambient air and product temperatures must be close.
- Use a large tray to limit exothermic chemical reactions
- Stir or shake individual components thoroughly. Add hardener to the Base, stir and leave for 10 minutes to allow bubbles to disperse.
- Mix only the necessary quantity.
- Work at constant temperature

Note: after application, let harden, sand with 80 abrasive paper to grade fibres that go out of the surface and apply a second coat. This process operation is fundamental to avoid moisture capture by capillarity along the residual wick. A 3<sup>rd</sup> coat could be applied if the surface is not regular after the 2<sup>nd</sup> coat.

## APPLICATION

### Roller / brush

- 1<sup>st</sup> coat : Ensure that resin penetrates all crevices of the surface. Cross movement during application.
- Once dried, sand the surface with grit P80 to lop the ends of fibreglass which go beyond the surface by "wick effect".
- Apply a 2<sup>nd</sup> coat to ensure the fibres are fully coated in resin.
- Apply a 3<sup>rd</sup> coat if necessary.

Theoretical coverage :

- 15m<sup>2</sup>/kg (planed surface)
- 8m<sup>2</sup>/kg ( sanded surface)

Thickness film : around wet 100-150µm per layer.

## TRANSPORT, STORAGE, AND SAFETY INFORMATION

### Transport and storage

- This product should be kept in securely closed containers during transport and storage.
- Exposure to air, sun, and extreme temperatures should be avoided. For the full shelf-life of the paint, be sure that the container is firmly closed between use and the storage temperature is between 10° and 25°C. Keep out of direct sunlight.

### Safety

- Before use, read the label safety section for Health and Safety Information. For further details, please contact Nautix or its distributors.
- All professional operators must wear suitable protective clothing : coveralls of a contrasting colour to the product being applied, underneath a disposable coverall with hood, suitable gloves and impervious footwear that protects the lower leg. Wear suitable respiratory equipment (such as air fed respiratory protective equipment with combined protective helmet and visor) when spraying.

### Disposal

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

### General

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. Nautix can accept no responsibility for the performance of the product or for any loss or damage. The information contained in this sheet is liable to modification from time to time.

