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## Epoxies Training Introduction

Welcome to our comprehensive training session, where we delve into four innovative Norglass products, each with unique applications and benefits: Staybond Epoxy Glue, Liquid Glass Epoxy Resin, Norfill & Norflex Epoxy Fillers, and Norseal Wood Treatment. These products are crafted to address distinct challenges across various industries, from marine construction to furniture restoration, and understanding their individual characteristics is key to providing tailored solutions for our clients.

**Staybond Epoxy Glue** stands out for its formidable bonding strength, making it the adhesive of choice for structural integrity in marine construction and a variety of bonding tasks. Its gap-filling capabilities and compatibility with multiple materials, coupled with a non-staining finish, ensure a durable and aesthetically pleasing result.



**Liquid Glass Epoxy Resin and Liquid Glass Deep Pour Epoxy Resin** is celebrated for its optical clarity and versatility. Whether it's for high-gloss decoupage or filling imperfections, this resin provides a water-clear finish that enhances the visual appeal of any project. Its rapid curing and extended pot life make it ideal for both creative and structural applications.

**Norfill & Norflex Epoxy Fillers** are tailored for a broad spectrum of filling needs. Norfill offers superior strength and water resistance, perfect for heavy-duty marine repairs, while Norflex brings a lighter, flexible solution for fairing tasks. Both ensure durability and ease of use, with the ability to sand and paint over for a seamless finish.



**Norseal Wood Treatment** is the go-to solution for deep wood penetration and moisture barrier creation. Its clear finish and compatibility with various topcoats make it a versatile option for enhancing the longevity of timber structures, from chipboard furniture to plywood.

As we explore each product in detail, consider how they can be integrated into the range offered by the stores you manage. Your expertise in matching these specialised products to customer needs will not only enhance the stores' offerings but also ensure that clients receive the most effective and efficient solutions for their unique projects.

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## Training Manual: Staybond Epoxy Glue

### Product Overview

Staybond Epoxy Glue is a high-performance, two-part epoxy adhesive renowned for its exceptional strength and adhesive properties. This gap-filling, non-staining epoxy is specifically formulated for demanding structural applications where a robust, enduring bond is essential. It is particularly effective in boatbuilding and for laminating tasks, as well as for bonding diverse materials such as fibreglass, metals, concrete, ceramics, and glass.



### Key Features

- 1. Superior Cohesive Strength:** Engineered to provide a formidable bond, Staybond Epoxy Glue ensures a secure and durable hold, capable of withstanding rigorous conditions.
- 2. Broad Material Compatibility:** This adhesive is adept at bonding a diverse array of materials, offering flexibility and reliability for various bonding needs.
- 3. Solvent Free:** No solvents, no shrinkage resulting in the glue Not pulling away from the surface. No solvents also mean no reaction to the substrates e.g plastics.
- 4. Efficient Coverage:** A single mixed litre of Staybond Epoxy Glue can cover an area of 1m<sup>2</sup> at a thickness of 1mm, making it an economical choice for large projects.
- 5. Extended Working Time:** With a 24-hour workable period before reaching a hard cure, users have ample time for application adjustments, ensuring precision in alignment and bonding.
- 6. Convenient Pot Life:** The 20-minute pot life at 50% relative humidity provides a balanced window for application, reducing waste and allowing for meticulous work.

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## Benefits

1. **Reliable Waterproofing:** Its waterproof properties make it an indispensable adhesive in marine environments and other moisture-prone areas.
2. **Safety and Ease of Use:** The non-volatile nature of Staybond Epoxy Glue enhances user safety and comfort during application.
3. **Straightforward Mixing:** The simple 1:1 volume mix ratio eliminates guesswork, facilitating a consistent and reliable mixing process.

## Uses

### Staybond Epoxy Glue is the go-to adhesive for:

1. **Marine Construction:** Its waterproof bond is crucial for boatbuilding, where it provides a resilient, structural connection between components.
2. **Laminating Tasks:** The glue excels in laminating, offering a strong bond that is essential for layered constructions.
3. **Versatile Bonding Applications:** It is highly effective for bonding a variety of materials in both construction and repair scenarios, ensuring lasting results.

## Conclusion

Staybond Epoxy Glue is a standout product for professionals who demand a high-strength, versatile, and user-friendly adhesive. Its waterproof nature and non-staining finish are particularly beneficial in marine construction and other applications where both strength and aesthetics are important. To achieve optimal results, it is crucial to adhere to the specific preparation and mixing guidelines provided in the product data sheet, ensuring a strong, reliable bond for a wide range of materials.

***Preparation is essential— it's the secret to a top-notch finish without making the job harder. For simple guidelines, our Product Data Sheets (PDS) on the website have all the info you need for each product.***

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## Training Manual: Liquid Glass Epoxy Resin & Liquid Glass Deep Pour Epoxy Resin

### Product Overview

Liquid Glass Epoxy Resin and Liquid Glass Deep Pour Epoxy Resin is a high-performance epoxy resin renowned for its superior waterproofing and adhesive qualities. This product is specially formulated to provide a high-strength, clear gloss finish, ideal for a variety of creative and structural applications. Its ability to cure to a transparent state makes it perfect for projects where a clear, glossy aesthetic is essential.



### Key Features

- Optical Clarity:** Delivers a water-clear finish, enhancing the visual appeal of the substrate.
- Versatile Use:** Suitable for filling holes and imperfections across diverse materials, including timber and concrete, as well as for high-gloss decoupage applications.
- Customisable Coverage:** The coverage can be adjusted based on the application method and reinforcement material used, offering flexibility for different project requirements.
- Rapid Curing:** Liquid Glass is Surface dry within 1-2 hours and almost fully cured within 24 hours, achieving full strength in 7-10 days. Deep Pour Requires a longer curing time.
- Extended Pot Life:** Offers a practical working time, especially beneficial for intricate tasks that require precision.
- Ease of Mixing:** A simple 2:1 mix ratio by volume ensures straightforward preparation.

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## Benefits

1. **Aesthetic Enhancement:** The clear, glossy finish not only protects but also amplifies the beauty of the underlying material.
2. **Durability:** Its waterproof and strong adhesive properties guarantee a lasting application resistant to various environmental conditions.
3. **Ease of Use:** Designed for simplicity, the resin is user-friendly, with clear instructions for a hassle-free mixing process.

## Uses

**Liquid Glass Epoxy Resin and LG Deep Pour is an excellent choice for:**

1. **Decorative Finishes:** Ideal for achieving a high-gloss, protective coating on furniture surfaces such as tabletops and bar counters.
2. **Repair and Restoration:** Effectively fills and seals holes, cracks, and surface imperfections in a variety of substrates.
3. **Creative Applications:** A go-to resin for decoupage and other crafts where a clear, protective coat is essential.

**For larger jobs Liquid Glass Deep Pour Epoxy Resin may be more suitable. Please note Deep Pour requires a longer curing time.**

## Conclusion

Liquid Glass Epoxy Resin offers an impeccable blend of visual appeal and performance. Its clear, glossy finish and strong bonding capabilities make it a preferred choice for both practical and decorative applications. The product's reliability and ease of use ensure it is a staple for professionals and enthusiasts alike. For detailed application techniques and additional advice, refer to the Norglass information guide on Liquid Glass Applications.

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## Training Manual: Norfill & Norflex Epoxy Fillers

### Product Overview

Norfill and Norflex Epoxy Fillers are robust two-component systems crafted to address a broad spectrum of filling needs across multiple substrates. Norfill Epoxy Filler is engineered for its superior strength and dimensional stability, ensuring filled areas remain intact without shrinking. Norflex Epoxy Filler, distinguishable by its cream colour when mixed, is tailored for tasks requiring a fairing compound that can accommodate the natural movements of the substrate, offering a significant reduction in weight compared to its counterpart.



### Key Features

- 1. Norfill Epoxy Filler:** Characterised by its exceptional load-bearing capacity, this filler sets to a white colour and is capable of enduring prolonged water immersion, making it an ideal choice for marine repairs.
- 2. Norflex Epoxy Filler:** Its unique formulation allows for a 30% reduction in mass, providing a lighter repair solution without compromising on strength. The flexibility inherent in Norflex makes it suitable for large area applications where the substrate may experience flex or movement.
- 3. Easy to Sand:** Hassle-free sanding process, creating a smooth base for perfect paint application with minimal effort.
- 4. Curing and Recoating:** Norfill reaches a hard cure state in 24 hours and a full cure in 7 days, while Norflex sets hard in just 12 hours, with both allowing for subsequent painting after only 12 hours post-application.
- 5. Finish:** The finish of both products ranges from low gloss to flat, depending on how they are applied, offering a degree of flexibility in the final appearance.

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## Benefits

1. **Repair Versatility:** These fillers are adept at handling everything from minor dings to significant imperfections, providing a tailored approach to surface repairs.
2. **Colour:** Norfill has been designed to mimic the colour of faded gelcoat. It can also be coloured with polyester pigment paste.
3. **Durability:** Engineered to maintain their volume during curing, these products ensure that repairs last, resisting the common issue of shrinkage.
4. **User-Friendly:** With clear mix ratios and straightforward application processes, both Norfill and Norflex are accessible to users of varying skill levels.

## Uses

### Norfill & Norflex Epoxy Fillers are perfect for:

1. **Comprehensive Filling Solutions:** Norfill is the go-to for heavy-duty repairs, especially where water resistance is paramount. Norflex shines in situations where a lighter, more pliable filler is needed, such as in fairing over large expanses.
2. **Marine Repairs:** Both products are well-suited to the marine environment, with Norfill being particularly adept for below-waterline repairs due to its water-resistant properties.
3. **Aesthetic Restoration:** The ability to sand and paint over both fillers after curing makes them ideal for restorative work where appearance is as important as structural integrity.

## Conclusion

The Norfill and Norflex Epoxy Fillers are indispensable for a wide array of repair scenarios, offering solutions that are both resilient and adaptable. Norfill's robustness makes it a reliable choice for enduring repairs, while Norflex's lighter and more flexible nature caters to a different set of needs without sacrificing strength. When selecting a filler, consider the specific requirements of the job at hand to ensure the most effective and lasting repair.

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## Training Manual: Norseal Wood Treatment

### Product Overview

Norseal Epoxy Wood Treatment is a specialised epoxy resin solution designed to deeply penetrate wood, providing a robust moisture barrier and enhancing the longevity of timber structures. It is particularly effective for chipboard furniture and flooring, offering a waterproof seal that can be overcoated with various paint types after the appropriate curing period.



### Key Features

- 1. Deep Penetration:** Norseal's formulation allows it to seep deeply into porous timbers, locking out moisture and fortifying the wood from within.
- 2. High Coverage:** With the ability to cover up to 8 square metres per litre, depending on the timber density, it provides an efficient solution for large-scale applications.
- 3. Only 2 Coats Required:** Making for a fast completion time on project.
- 4. Extended Pot Life:** A pot life exceeding 8 hours at 50% relative humidity offers ample time for application without the pressure of rapid curing.
- 5. Clear Finish:** It maintains the natural look of the wood, drying clear and preserving the original aesthetics of the timber.
- 6. Versatile Overcoating:** Compatible with a wide range of paints, it allows for flexibility in finishing, whether the project calls for water-based, solvent-based, or two-pack products.



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## Benefits

- 1. Enhanced Wood Protection:** Norseal provides an effective waterproof barrier, significantly increasing the wood's resistance to moisture-related issues.
- 2. Ease of Application:** The 1:1 mix ratio by volume is straightforward, ensuring a simple preparation process for users of all skill levels.
- 3. Adaptable for Various Wood Types:** Whether dealing with soft, porous woods or denser timbers, Norseal can be applied effectively to achieve deep penetration and protection.

## Norseal Epoxy Wood Treatment is ideal for:

- 1. Waterproofing Chipboard:** It excels in sealing chipboard furniture and flooring, preventing moisture ingress and subsequent swelling or deterioration.
- 2. Flooring:** Norseal Wood Treatment can be used on flooring to lock out moisture and protect the material.
- 3. Protecting Plywood:** Essential for treating plywood, especially at the end grain, to prevent moisture penetration and ensure the longevity of the material.
- 4. General Wood Treatment:** Suitable for a broad range of timber types, Norseal can be used to treat any wooden surface that requires enhanced moisture resistance. Perfect for Windows and fence posts.
- 5. Timber Protection:** Protects timbers from teredo worm and white ants

## Important Note:

Like all epoxies it should not be left outside in direct sunlight as the coating will break down.

## Conclusion

Norseal Epoxy Wood Treatment is an essential product for anyone looking to extend the life of wooden structures by protecting them from moisture. It's clear finish and compatibility with various topcoats make it a versatile option for both aesthetic and protective applications. By following the recommended guidelines for application and ensuring proper ventilation during use, Norseal can provide a durable and effective barrier against moisture, preserving the integrity and appearance of wood in a variety of settings.

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