

Technical Data Sheet

Fairing Cream Epoxy Fairing and Repair System



DESCRIPTION:

Fairing Cream epoxy is a sandable filler used for the smoothing or “fairing” of large surfaces. Also, as a general-purpose lightweight filler.

TYPICAL FEATURES | BENEFITS:

- Simple 1:1 Mix ratio.
- Interior | exterior application.
- User Friendly.
- Easily to apply.
- Two colours differentiate resin and hardener.
- Easy mix recognition.
- Lightweight and sag free.
- Easy to sand.

PERFORMANCE DATA:

| Properties | | Values |
|---|---|------------------------------------|
| Minimum application temperature: Air | | +10°C |
| Flash point: | | >100°C |
| Maximum operating temperature: | | +60°C |
| Appearance: | ~ Resin ~ Hardener | White Paste Yellow Paste |
| SG kg/litre: | ~ Resin ~ Hardener | 0.75 0.75 |
| Coverage: | Use as required: (0.001m ³ = 1 Litre) e.g. 1 litre covers 1m ² @ 1mm thick | |
| Pot Life: (Usable Life) Pot life is based on 100gram samples. Large quantities of mixed epoxy will generate heat and the pot life may be significantly reduced. | +15°C– 50%RH +20°C– 50%RH | 60 – 80 minutes 40 – 60 minutes |
| Cure Time: | +20°C –50%RH | 24 hours |
| Clean up: | Wash hands with warm soapy water after any skin contact Solvent HA for tools | |
| NZ Dangerous Goods Class: | ~ Fairing Cream | Refer: SDS |
| Packaging: | ~ Fairing Cream Kit ~ Fairing Cream Resin ~ Fairing Cream Hardener | 2 litre 10 litre 10 litre |
| Shelf Life: | 24 months from date of manufacture. (After this period consult with allnex). | |

RECOMMENDED USES:

- Smoothing boat hulls.
- Model making.
- Screw holes in sheet material.
- All sanding and smoothing operations.
- Hole filling – spatulas smooth.
- Wood work.
- Fairing of plywood.

NOT RECOMMENDED:

- Application below +10°C air temperature.
- Application to incorrectly prepared surfaces.
- Application to unsound substrates.
- Areas subjected to chemical or physical attack.

HEALTH & SAFETY: Refer safety data sheets (SDS).

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

SURFACE PREPARATION:

The surface to be filled/faired must be clean and sound.

Remove all dust, dirt, oil, scale, laitance or any other contaminants.

Timber: Prepare by way of mechanical sanding using 80-100 grit.

MIXING RATIO

Fairing Cream Mixing Ratio - By weight

| Element | Value | Element | Value |
|----------|-------|----------|--------|
| Resin | N/A | Resin | 1 part |
| Hardener | N/A | Hardener | 1 part |

Fairing Cream Mixing Ratio - By volume

Refer: Cautions Section

The mix ratio must not be altered.

The mix ratio is the only acceptable formula.

Adding more hardener will make the mix softer and it will be uncured.

Increased hardener levels will result in a weaker product.

MIXING METHOD:

Carefully mix the product according to the stated mix ratio. Mix until uniform and no streakiness is evident.

May be hand mixed and moulded.

Mixing/application correctly is achieved by:

- Having three spatulas. One for resin, one for hardener and one for mixing.
- Having a large board (400mm x 400mm) that is clean and not contaminated with old mixes or material.
- Place the components on the board next to each other and estimate that equal quantities are there. Take care and practice doing this.
- Once equal parts have been achieved you may then start mixing and do not add more of either component to that mixture.
- Clean the board before starting a new mix.

Pre-work Training:

- Do a trial under supervision. Try a mix with too much hardener, wait 24 hours and see how soft it is.
- Do you really want that on your product?
- Have a training discussion on the consequences of poorly mixed and soft material on/in your product.

Note

The installation of this product is speciality work and consideration should be given to the use of a competent installer.

APPLICATION METHOD:

Spatula / trowel / Hand moulding.

FAIRING CREAM APPLICATION:

Fairing:

Apply mixed fairing cream to surface and trowel and then screed flat with screeding bar. Allow to cure, then sand off ridges. Repeat until "fair".

Spot Filling:

Apply mixed product with a broad knife. Force it into the hole ensuring that it "wets" or "holds" to the surface. Sand cured material as required.

Hand Moulding:

Form as required, non-sag.

CAUTION:

Fairing Cream is a two-part epoxy that is mixed in a one-to-one ratio. Only this ratio will produce a hard, sandable and non-softening product. Adding more hardener (with the aim of making the product cure faster) will not work and will only result in making the product softer. The more hardener that is added, then the softer it will become. No matter how long it is left, it will never harden.

Only a mix ratio of 1:1 will work.

This is directly opposite to "Builders Bog" type products where a "catalyst" level is at 1-2% only (and more catalyst means a faster cure speed).

These products, however, are very brittle and have poor adhesion to screw heads and are prone to vibration and impact damage.

Examples of effects of over addition of hardener: (the yellow/beige component).

- The mixed Fairing Cream is very yellow-brown: (mixed correctly it is a pale beige only).
- The cured Fairing Cream; even after days, is still soft.
- On hot days, the Fairing Cream will become softer on areas subject to high solar gain.
- The mix will “bulge” out over time.

Other factors to be aware of:

- Screws that are barely recessed and there is “no depth” to the epoxy fill thus creating a weak point.
- Often the work of filling holes: - a repetitive job, is given to a site junior.

(The mixing of the resin and hardener in a 1:1 ratio is absolutely critical and serious training and supervision should be given).

Note well

The consequences of having soft Fairing Cream due to poor mixing may be far reaching and costly to repair.

This is a job that must be done once, and done right. Many people do not understand the consequences.

One to one ratio mixing means just exactly that.

OTHER EPOXIES AVAILABLE:

- K36 - Clear Laminating Resin.
- K78 - Crack Repair.
- K80 - Pourable Grout.
- K83 – Machinable Epoxy Grout
- K102 - High Viscosity Mortar.
- K106 - Structural 24 hour Adhesive.
- K125 - Concrete Repair Paste.
- K130 - Control Joint Filler.
- K138- High Strength, Structural Heat Resistant Adhesive.
- K214 - General Purpose Adhesive
- K219- Structural 5 Minute Adhesive.
- K273- Underwater Cure Mortar.
- K2005 - High Peel Strength Structural Adhesive.
- Fairing Cream - Sandable Smoothing Paste.
- Truestik EA - Flexible Adhesive – Multipurpose.

EPOXY SELECTION:

Refer: Epoxy Selection Chart.

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