

MANUAL SECTION	ISSUE DATE	AUTHORISED	REPLACES	PAGE
----------------	------------	------------	----------	------

<i>Epoxy</i>	<i>July 2009</i>	<i>PM</i>	<i>July 2007</i>	<i>1 of 3</i>
--------------	------------------	-----------	------------------	---------------

Based on Nuplex Epoxy Technology

## FAIRING CREAM EPOXY

**DESCRIPTION:**

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

**FEATURES**

- Simple 1/1 mix ratio (see below)
- Two colours differentiate resin and hardener
- Lightweight and sag free
- Lightweight filler

**BENEFITS**

- User friendly
- Easy mix recognition
- Easy to apply
- Easy to sand

**NORMAL END USES:**

- Smoothing boat hulls
- Hole filling, spatulas smooth
- All sanding and smoothing operations
- Model making
- Wood work
- Screw holes in sheet materials

**TYPICAL PROPERTIES:**

	<b><u>RESIN</u></b>	<b><u>HARDENER</u></b>
<b>Appearance:</b>	White paste	Yellow paste
<b>Specific Gravity:</b>	0.75	0.75
<b>Flash Point:</b>	>100°C	>100°C
<b>Shelf Life:</b>	>24 months	>24 months

**MIX RATIO:**

**by volume:** The Resin / Hardener ratio is 1:1 by volume.

*The mix ratio must not be altered.* Adding more hardener will make the mix softer and it will be uncured.

**POT LIFE:**

**(Usable Life)**

**@ 15°C**

60-80 minutes

**@ 20°C**

45-60 minutes

No warranty either expressed or implied or statutory is made by NUPLEX in this document except as expressly stated in any sale and purchase agreement entered into between NUPLEX and the buyer. CERTIFIED ISO 9001 REG. NO. 158  
This document is a technical data information sheet The description of the product or products and the properties of the product or products contained in this document is for the sole purpose of identifying the product or products and describing their property or properties and does not constitute a warranty that the product or its properties shall conform to that description; nor is the description of the product and/or its properties a warranty by NUPLEX that the goods are suitable for a particular purpose.

**FAIRING CREAM** (cont'd)

<b><u>CURE TIME:</u></b>	24 hours at 20°C
<b><u>COVERAGE:</u></b>	Use as volume required (0.001m <sup>3</sup> = 1Lt)
<b><u>SURFACE PREPARATION:</u></b>	All surfaces must be clean, dry, oil and dust free. Abrading surfaces with grinder or coarse paper is advantageous.

**MIXING INSTRUCTIONS:**

Carefully mix the product according to the stated mix ratio. The mix ratio is the only acceptable formula. Increased hardener levels result in a **weaker** product. Mix until uniform and no streakiness is evident. May be **hand** mixed and moulded.

**APPLICATION:**

- a) **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".
- b) **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.
- c) **Hand Moulding:**  
Form as required, non-sag.

**Mixing and application ----- Caution & Care**

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 hot walls.
- The mix will "bulge" out over time
- Another problem may be that the screw is barely recessed and there is "no depth" to the epoxy.

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.

The consequences of having soft fairing cream due to poor mixing may be far reaching and costly to repair. This is 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.*

Mixing correctly is achieved by:

1. Training: Do a trial under supervision. Look at the cured sample the next day. Try a mix with too much hardener, wait 24hours and the see how soft it is. Do you really want that on your product?  
Have a training discussion on the consequences of poorly mixed and then soft material on/in your product.
2. The installation of this product is speciality work and consideration should be given to the use of a competent installer.
3. Having a large board (400 x400) that is clean and not contaminated with old mixes or material.
4. Having three spatulas. One for resin, one for hardener and one for mixing.
5. Place the components on the board next to each other and estimate that equal quantities are there. Take care and practice doing this.  
Then start mixing and do not add more of either component to that mixture.
6. Clean the board before starting a new mix.

### **HEALTH AND SAFETY:**

Use gloves wherever possible. Wash hands with warm, soapy water after any skin contact. Re-seal all container tightly. Clean up with Eposolve 70.

### **OTHER EPOXY PRODUCTS:**

K80	Pourable Grout	K214	General Purpose Adhesive
K102	H.V. Mortar	K36	Clear Laminating Resin
K125	Paste	K78	Crack Repair
K230	Fast Set Paste	K85	Rapid Set Pourable
K273	Low Temp Paste		Fairing Cream Sandable Smoothing Paste
K268	Rapid Set Paste		
K106	Structural 24 hour Adhesive		
K219	Structural 5 minutes Adhesive		
K138	High Strength, Structural Heat Resistant Adhesive		
K2005	High Peel Strength, Structural Adhesive		
Repikit 310	Concrete Crack Repair Tube and Kit		