MEGAPOXY 132

High Strength, High Gloss, Multi Purpose Epoxy Resin

Megapoxy 132 is a 2-component, 100% solids, Nil VOC, liquid epoxy resin, which can be used for a large variety of applications.

Megapoxy 132 has the following advantages:

Solvent free, which allows most epoxy pigments and oxides to mixed into it for colour.
Low viscosity, which permits relatively high filler loadings.
Excellent ambient curing, even at low temperatures and high humidity.
Good impact resistance.

Megapoxy 132 has a work-time of 30 minutes and has an initial set of about 4-6 hours, and is cured in 24 hours @ 25°C.

Mix Ratio - 2 Parts A to 1 Part B by Volume.
Coverage - Roller applied; 5-8m² per litre approx.
Poured; 1lt covers 1m² at 1mm thick.

One coat is usually all that is needed to capture a glossy shine. Two or more additional coats may be applied without damaging the first coat, especially if wanting a deeper look to the coating.
Megapoxy 132 is recommended for interior use only. It should be noted that Megapoxy 132 may yellow over time from UV exposure if used externally.

General Coatings - Megapoxy 132, is a versatile product, it may be applied over almost any surface, rough or smooth. It can be applied over wood, paper, ceramics, rocks, concrete and most other construction materials, providing a few simple rules are observed.
If in doubt, always test a small sample of the item you wish to coat.

Decoupage - After the pictures have been sealed and mounted onto the desired surface, apply two coats of Megapoxy 132 over the entire surface, a minimum of two coats is recommended.

Table and Bar tops - Cracks, seams or areas where the epoxy could leak through, should be filled. If wanting to make these areas into features, adding pigments to the Megapoxy 132 can highlight these. If the cracks or holes go right through, make sure to seal the bottom of the hole.

River Tables - Sealing It is recommended to seal the live edge with a thin coat of Megapoxy 132 prior to pouring the river casting, this should stop any air escaping out of the live edge after the river has been poured and while heat is being generated during the curing process.

- Pouring We recommend pouring a maximum of 10mm thickness at a time, minimum of 4 hours apart. This should stop any heat issues during the curing process. 10mm is a general guide only. The thickness that can be poured is really dependent on the volume and temperature.

Flooring -	Megapoxy 132 is suitable for a variety of commercial, industrial & domestic applications. With the inclusion of coloured pigment, Megapoxy 132 floor coating provides a high strength, abrasion resistant, decorative surface finish. Adding a recommended 10% maximum of Megapoxy Thinners to the Megapoxy 132 in the first coat, will aid in priming and sealing the prepared floor surface, we recommend no thinners in any additional coats.
Fiberglassing -	Megapoxy 132 with fiberglass cloth or chopped strand mat will provide excellent protection against chemical attack, abrasive wear and other applications for service in the marine environment. This system is good for lining tanks, vats, sumps and sheathing boats, where a high quality resin of low viscosity is required.
Tools -	Mixing containers - Should have smooth, flat bottom and be clean and dust free. Spatula- Must have flat, straight edge to ensure thorough mixing. Brush - Sometimes a small brush is needed for coating edges of crevices.
Surfaces -	For best results, the surface must be dry and free of dust, wax, grease and oil. The item to be coated ideally should be about raised approximately 20mm above the work area so that the extra mixture will drop off the item. We recommend using a plastic drop cloth or sheeting to protect the work surface from the resin drips. Apply tape or a mold release to prepare the back surface of the project for easy drip removal.
Seal Coats-	Porous materials such as paper, cardboard, photographs etc. require a sealing coat to prevent the epoxy resin penetrating the object to be coated. Proprietary sealers can be used. You must wait until the seal coat has totally dried before applying Megapoxy 132.
Drips -	Use one of the following methods to remove these drips. Drips may be scraped off approximately 45 minutes after pouring, by running a tongue depressor or flat edged tool along the underside edge of the project where drips have formed. Clean depressor off on paper towel often. Before pouring apply tape on the edges of the back of the item. Use the above method to minimize the drips, after Megapoxy 132 has cured, the tape along with the drips may be pulled off. The cured drips will pull off with the tape as it is peeled away. Drips may be sanded off after the item has cured, if tape has not been used. Take care not to let any of the drips that break off get under the project, this may cause scratching.
Working Time -	30 mins @ 25°C. Tack free time 4 - 6 hrs @ 25°C . Cure time - 24 hrs @ 25°C.

Directions for use -

Mixing -	Add the hardener to the resin in the correct ratio, mix in a clean container using a flat spatula. Be sure to scrape sides and bottom of cups containing the resin and hardener during mixing. In order to ensure a beautifully finished product, it is extremely important that the resin and hardener are thoroughly mixed. If bubbles appear, do not worry (see bubble breaking). Mix only the amount you are going to be able to use in the recommended worktime. If mixing in cold conditions you can warm the mixture up by placing your mixing container in some warm water, this will lower the viscosity of the resin and make it easier to mix. Although warming it up will reduce the work time.

Pour Immediately - As soon as Megapoxy 132 is mixed pour evenly over the surface, you can use a small notched trowel to spread the resin over the surface or a brush. You will have approx. 30 minutes working time before the resin starts to set.

Bubble Breaking - After a few minutes, bubbles may rise to the surface. They may be broken by spraying with a mist of Methylated Spirits, or using a Heat Gun or flame to dissipate air bubbles.
If there is stubborn bubble, just pop it with a toothpick.
If using a heat gun or flame, continually move the heat over the resin, do not leave it in one spot for too long as you may burn/scorch or hot spot the resin.

Curing - For best results, the room temperature should be approximately 25°C. Room humidity should be under 60%. The coated item should be allowed to cure for several days in a dust free room. If your item remains sticky after this time, you have measured incorrectly and the item may be re-poured following the above steps after the uncured resin has been removed. If your item has soft spots you have under-mixed and the item may be re-poured, again, after the uncured resin has been removed, following the above steps.
If the stickiness or softness is not removed before the new layer is done, the new cured layer may crack when impacted due to the spongy layer underneath. Protect poured item from dust by using a box to cover item, or a "protective tent" made by a plastic drop cloth over two chairs.

Cleaning up - All spillages and excess liquids can be cleaned using absorbent cloth or paper towels as soon as possible. Clean up Megapoxy 132 while it is in the liquid state.
We recommend the use of Megapoxy Cleaning Solvent. Clean equipment immediately after use. Once cured Megapoxy 132 can only be removed by mechanical means.

Warnings - We do our best to check that most additives will mix through Megapoxy 132 with no curing issues, however we cannot check everything, if you have any concerns with what you are trying to use to colour with, please do a small trial and leave overnight to confirm that there will be no curing issues.

This brochure is intended to be a guide / outline for some of the many applications/ uses for Megapoxy 132. It is designed to help first time users who are unfamiliar with the tips and tricks of using epoxy resin.

Safety and Hygiene - When handling the unmixed materials and components, care should be taken to prevent the liquids from coming into contact with the skin and eyes.
The use of protective clothes, gloves and safety goggles is recommended.
Avoid inhalation of vapors.
Refer to the Safety Data Sheet, (SDS) for Megapoxy 132 before using.

All purchasers of Megapoxy products are invited to avail themselves of our technical service on epoxy resins. The methods and systems outlined in this product information are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.