

Kemapoxy Cast

Clear Epoxy Casting Resin.

Description:

- **Kemapoxy Cast** is epoxy resin water – clear casting, low viscosity designed to offer unrivalled clarity, air release and UV stable..

Fields of Use:

Kemapoxy Cast : is used for producing high quality crystal clear casting epoxy for the following:

- Furniture: river tables, knot holes, etc.
- Wood: tables, lamps, bowls, etc.
- Clear casting: sculptures, figurines, etc.

Advantages:

- Easy to use, doesn't require any special equipment.
- Low odor , self-degassing.
- Can be cast directly into wood at thicknesses up to 30 mm in single pour.
- Solvent free – no odor during application.
- Good resistance for abrasion, chemicals.
- Anti-microbial growth.
- Hard wearing and highly polish able.

Technical Data :(at 25 °C)

Colour	Water –clear
Solid content	100 %
Density	1.00 ±0.05 kg/l
Mixing ratio A : B (by weight)	3 : 1
Pot life	45 min (decreases at higher temperatures)
Initial setting time	48 hours
Final setting time	72 hours
Full hardness	7 days
Recoating time	18 - 24 hours
Min. application temperature	15 - 30 °C
Humidity	70 %
Rate of use (theoretical)	Depend on the volume of the shape

Directions for Use:

Surface preparation:

- **Kemapoxy Cast** can be affected by the surface conditions like moisture, humidity so
- It is important the surfaces must be dry, and stable as possible. This specially when working with natural materials like wood, rocks or concrete where moisture levels within substrate can be high.
- Wood with high moisture content is also liable to shrink as it dries out which can cause bowing or distortion of the piece if wood starts to dry after casting the **Kemapoxy Cast** so ensure wood is properly seasoned and dried before use.
- When working with porous substrate such as wood, chipboard, concrete, it is recommended to first seal the substrate with thin layer of **Kemapoxy Cast** by using disposable brush.

Mixing and application:

- Add **comp B** (insure all liquid of comp B is added) to **comp A** and mix well manually by using suitable stick or by using very slow mixer.
- After well mixing two components wait 5 minutes, then pouring the product in prepared surface.
- factors such as ambient temperature, mixing action, pouring thickness and substrate you are pouring onto can all influence the appearance of trapped air (bubbles), so after around 10 minute, if you find that can still see trapped air bubbles with this resin then light passing over the surface of the resin with heat gun or blow torch on low setting will help to dispel any bubbles.

Protective Coating Products

Epoxy Paints

Directions for Use:

Guide of application:

- **Sealing the porous surfaces:** When the pouring surfaces contain porous such as wood, chipboard, MDF, it is highly recommended to apply sealing coat by **Kemapoxy Cast** before the main pour. You should allow the sealing coat to cure before pouring the final .
- **Adding Barriers:** for river table designs feature we recommended to using supporting barriers to casting require thickness, where you must barriers not stick to product and easy removed after full curing. It is very important that the barriers are totally sealed.
- **The main pour :**
 - Ensure your work area is as free of airborne dust as possible.
 - Ensure the ambient temperature is between 20 – 25 °C.
 - Ensure the relative humidity not more than 70 %.
 - Calculate how much **Kemapoxy Cast** you need by calculation the volume of the work area by using equation (length x width x depth).
 - Note that the maximum casting thickness into wood is 30 mm per pour.
 - Once the work area is ready to pouring , after mixing well pour the product and take careful after 10 minutes look over your casting if any trapped air bubbles still persists , you can use a heat – gun or gas blow torch lightly over the surface.
 - Once you finish your approved pouring ,cover it as soon as possible to prevent any airborne dust or contamination from landing on the surfaces.
 - After full curing you can do polishing and finishing shaping.

Safety Precautions:

- Application should be carried out in well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water. Don't use solvent.
- If the material is splashed into the eyes, they should be immediately washed with water and then report to an eye specialist.
- Do not eat or smoke during application.

Storage:

- 2 years under suitable storage conditions in closed containers.

Packages:

- Kits (A+B) 1 kg and 4 kg.
- Follow the mixing ratios - by weight - indicated on the package.