

FORTIS 822 ULTRA CLEAR



Fortis 822 Ultra Clear is solvent free liquid epoxy resin system specifically designed for applications that require a crystal clear, high gloss casting that will cure at room temperature. **Fortis 822 Ultra Clear** is a low viscosity epoxy allowing superior air release for a bubble free finish and is designed for medium sized castings between 5 and 30mm in a single pour. Multiple pours can be used for deeper river table applications. **Fortis 822 Ultra Clear** can also be used for coatings and small crack filling, however full cure will be achieved slowly.

Features and Benefits	<ul style="list-style-type: none"> • Low viscosity • Excellent bubble release • Self-levelling • Low exotherm • High clarity and low colour
Typical Applications	<ul style="list-style-type: none"> • Casting
Properties	<ul style="list-style-type: none"> • Clear liquid • Pot life: 60 minutes (100g at 25°C) • Thin film set time: 24 hours at 25°C • Cured to solid state: 7 days • Cure to maximum strength: 7 days • Mixed viscosity: Shore D hardness (at 20°C): 83 • Colour Stability: Darkens on exposure to UV
Colours	<ul style="list-style-type: none"> • Clear
Pack Size	1.5L, 6L, 15L
Shelf Life	12 months @ 25°C unopened
Safety	<ul style="list-style-type: none"> • Refer to Safety Data Sheet prior to use • Good industrial hygiene practices should be observed at all times • Appropriate PPE should be worn including impervious gloves & eye wear
Storage	Store in cool, dry conditions, out of direct sunlight and in a well-ventilated area. Do not store below 5°C or over 40°C
Surface Preparation	Working area should be covered with cardboard or plastic. The surface to be coated should be dry and free of contaminants.
Mixing	<p>Mixing Ratio is 2 parts A Resin to 1 part B Hardener by volume</p> <p>Ensure Fortis 822 Ultra Clear Part A and B are shaken prior to pouring and mixing. Graduated plastic mixing containers are recommended for measuring volumetric quantities. Part B is to be added to Part A and mixed at low speed with a Jiffy style mechanical mixer. Care should be taken to minimize air introduced during mixing. Mix until a smooth and homogeneous mixture is formed, free of striations. This should take approximately 3 minutes. Ensure material from the bottom and edges of the pail are sufficiently mixed. Let material stand for 1 minute and mix for an additional minute.</p>
Pour	<p>For best results, use at temperatures 15 - 30°C and <85% humidity.</p> <p>Fortis 822 Ultra Clear is a medium speed casting system specifically designed for a low exotherm for small to medium sized pours (5-30mm thick). Thicknesses above this can be achieved in multiple pours.</p> <p>Air bubbles may form on the surface. Air bubble release is greatly enhanced by use of a heat gun or gas torch. Care should be taken to avoid over heating in one spot - sweep</p>

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the heat gun continuously across the surface for a few seconds. The mixed product should be cured in a warm, dust free area, and should be covered.

Cure Time

The cure speed of this product depends greatly upon the volume of product mixed. If mixing large volumes, material should be poured quickly into the desired cast. Material left to stand in mixing containers will exotherm and react quickly. 1L of mixed material will exotherm excessively after approximately 1 hour and should be split into smaller volumes. Material cast into a 400mL block 80mm high and 40mm in diameter will exotherm to greater than 120°C and discolour.

Clean-Up

Equipment can be cleaned with xylene or acetone immediately after use. Hardened materials must be removed mechanically.

Limitations

Avoid working in conditions that could cause condensation to form on the uncured coating and giving rise to surface "amine blush". Moisture and temperature are the key considerations - avoid using this product at temperatures lower than 10°C and take all reasonable measures to minimise the risk of contact with water, moisture, or excessive humidity during the cure period. Do not thin.

For further information, including Safety Data Sheets and Technical Bulletins on adhesive applications and surface preparation, refer to the Fortis website www.fortisadhesives.com.au.

Disclaimer - Fortis products should be used in accordance with the information contained herein. Each user should read and consider this information carefully in the context of how the products will be handled and used in the workplace including in conjunction with other products. While the information contained herein is to the best of our knowledge at the date of publication, Fortis makes no representation about the accuracy of the information. If you need clarification or more information, you should contact Fortis Adhesives & Coatings. Fortis products are sold without express or implied warranties, other than as provided by statute, and subject to our standard terms and conditions (provided to customers and available on request). Subject to our standard terms and conditions, and any statutory provisions, Fortis accepts no responsibility (including in negligence) for loss or damage of any nature resulting from the use of Fortis Adhesives & Coatings products or reliance upon the information contained herein.

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