



adhesivetech

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VERSION: 1.0

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ADR231 Mast Chock Resin

Introduction

ADR231 Mast Chock Resin is a low viscosity, solvent free epoxy resin specifically formulated for the use with the ADH231 hardener to cure at room temperature or low temperature applications.

Mix Ratio

See table below

Note: Care should be taken to when dispensing and mixing.

Optimum results are achieved when recommended ratios are used.

ADR231	
Physical State	Colourless liquid
Specific Gravity (g/mL)	1.16
Viscosity @ 20°C	900cps

	ADH231
Mix Ratios (2:1) 100g ADR231 with (by weight)	50g
Mixed Viscosity at 20°C	700-800cP
Pot Life - 100g @ 20°C (hours)	3 hours
Thin Film – 7g @ 20°C (hours)	5 hours
Shore D Hardness (@ 72 hours @ 25°C)	84.7± 5.1 HA

Note: Typical properties and not to be construed as actual specifications

Post Cure

Not applicable, use only as directed. Typical post cure is 3 days at 20°C.



Mast Chock must be covered to prevent UV / Sunlight exposure due to its epoxy chemistry.

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General Use Information

ADR231 Mast Chock is an easy to use, castable deck chock system which replaces the wedges or plastic block normally used to position yacht masts at deck level. Consisting of two pre-measured pots of liquid plastic, ADR231 Mast Chock is poured into the gap between mast and partners and then left to cure. The resulting chock is a slightly flexible but permanent chock which can be re-used if the mast is removed. Major benefits of this system include a perfect fit to any shape mast and collar, exceptional ability to absorb and distribute mast loads without creating hard points, it will greatly reduce or eliminate leaking at the partners and it eliminates the worrisome experience of pumping or dropping a mast wedge out.

ADR231 Mast Chock is offered in different sizes of kit depending on the volume to be filled. Containing pre-measured pots of ADR231 Mast Chock and Hardener.

ADR231 Mast Chock will hold its own shape in as little as three hours after pouring. ADR231 Mast Chock can be installed at temperatures as low as 10 degrees Celsius and will cure enough to go sailing in as little as 48 hours in 25 deg Celsius. At less than 10 degrees C curing is markedly slowed and a bare light bulb can often be used as a small heat source to keep things warm with minimal fire risk.

As well as this information on ADR231 Mast Chock currently comes in a standard black.

Make sure that the mast is positioned correctly in the deck. If necessary secure it against movement by tying it securely in position with rope, halyards or chocks. Make sure any chocks do not interfere with the deck hole area where the ADR231 Mast Chock will be installed.

Do not assume that the deck opening is centered over the mast step, Measure from the top of the (straight) mast to each side of the yacht (sheer) to ensure that the mast is centered athwartship.

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Your experience should determine the fore/aft rake and if in doubt consult your Designer, Rigger or Builder. You should only need to accurately position the mast once as ADR231 Mast Chock will re-position the mast accurately for each successive stepping. Clean all surfaces that will come into contact with ADR231 Mast Chock, removing old tape glue, grease, dirt and dust. The surface must be dry before proceeding.

Using expanded foam, masking tape and clay or inflated tyre tube, create a floor between the mast and deck opening at the depth that you want, in order to contain the liquid mix. The ADR231 Mast Chock moulding should easily break out from the deck sides or collar when the mast is next removed from the yacht. Make sure the mast groove extrusion is also blocked making a seal.

For larger areas, use the foam to make a base and then cover this with strips of modelling clay to ensure a watertight fit and adjust for the correct height.

Take care to ensure that your mould will not allow ADR231 Mast Chock to extend beyond the deck opening below deck, otherwise it will be impossible to remove the mast without having to cut the ADR231 Mast Chock seal.

Smear petroleum jelly in the mould area, around the mast side and collar. This will release the ADR231 Mast Chock mixture from the mould and ensure that the ADR231 Mast Chock rig can be removed from the collar. It will also allow the mast to move vertically inside the collar, and important factor if you are using a mast jack to tension the rig.

Overlap short strips of the 50mm masking tape around the outside of the collar so that at least 25mm of the tape is above the rim of the collar creating a masking tape dam. This will be the top portion of the mould. Make sure that the tape is adhered to the collar with no openings along the collar's perimeter.

Make sure all areas on both the deck and cabin floor are covered with drop cloth or newspaper or similar before proceeding to the mixing stage.

Estimating Quantity Estimate the quantity needed by measuring the square cm area of the mast section, and taking this away from the area of the deck opening. Multiply this by the desired depth (at least 6cm). If you run out, a further amount can be mixed and added later.

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Mixing

Open can A and can B. Pour all of B into A. Stir well for at least three minutes. Transfer the entire contents into the disposable pouring cup and mix for another two minutes. Do not scrape the sides of the can when transferring, the remaining product is not mixed properly and can affect the final cure. USE ADR231 Mast Chock within 5 minutes of mixing. Depending on temperature, ADR231 Mast Chock will skim over in 3 hours of the mixing process.

Pouring

Pour ADR231 Mast Chock into the prepared area between mast and collar. When properly mixed it pours like syrup and it will seek its own level. For best results ADR231 Mast Chock should be poured from a height of 1cm above the rim of the deck collar so that a lip is formed. Masking tape or a clay dam will contain the liquid. If additional ADR231 Mast Chock is needed to fill the mould repeat the above mixing and pouring steps with additional cans.

During curing, protect the mixture from rain by fitting a plastic tent. Once it has set, remove any tape, foam or modelling clay. When hard, any 'flashing' can be trimmed off with a knife, or file.

ADR231 MAST CHOCK MUST BE LEFT TO CURE BEFORE TENSIONING THE RIG OR SAILING. In hot weather above 25C this should be at least 72 hours and in cold weather between 10oC and 20oC this should be 5 to 6 days. The curing time can be reduced by using a heat source for the first 10 to 16 hours. A light bulb(s) on a lead can often be used to provide a relatively safe heat source.

Maintenance

To ensure a watertight barrier apply a bead of caulking around the joint between mast wall and ADR231 Mast Chock must be covered to prevent exposure to UV rays will cause damage and will affect the product's integrity. Painting the surface will eliminate this effect. For future un-stepping you should not need to remove the ADR231 Mast Chock collar from the mast. Break any seal between deck with a razor knife. If required the ADR231 Mast Chock ring can be slid up the mast section to aid re-stepping.

WARNING!

ADR231 Mast Chock is inert in its cured form but NEVER pour liquid ADR231 Mast Chock or its two components down a drain or sewer.

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Storage

ADR231 will keep for 2 years if kept in original containers at room temperature (15°C – 32°C and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

Adhesive Technologies NZ Ltd provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information.

Direct skin contact should be avoided, all amines they have a moderate sensitising potential and should be considered to be mild skin corrosives. ADR247 system should not be ingested; in an unlikely event ADR247 is ingested see your nearest physician immediately.

- ❖ Use with good ventilation and adequate safety equipment including gloves.
- ❖ If skin contact occurs, wash with lanolin based hand-cleaner and water.
- ❖ If eye contact occurs, immediately wash for 15 minutes with running water.
- ❖ If swallowed:

Resins - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

Hardeners – DO NOT induce vomiting, give plenty of milk or water and contact a doctor or Poisons Information Centre.

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