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TECHNICAL DATASHEET

ADR295 – EZ CHOCK

General Description

ADR295 EZ CHOCK is a filled, solvent free epoxy resin specifically formulated for the use with the ADH295 hardener to cure at room temperature with minimal post cure requirements.

ADR295 is primarily designed as a load transfer medium, bedding components to another substrate and transferring load from one to the other, ensuring large bearing surfaces and tight tolerances. ADR295 has a low exotherm and shrinkage coefficient making ADR295 suitable for larger castings; recommended operating temperature is -5°C to 45°C.

- Chocking compound for propeller shafts tubes and rudder stocks tubes.
- Casting and Potting applications where strength is required.

Mix Ratio / Instructions

Add 225g of ADH295 Hardener to 3Kg of ADR295 Resin and mix thoroughly.

Note: Care should be taken when dispensing and mixing. Optimum results are achieved when recommended ratios are used.

Mix Ratio (by weight)	7.5 Parts of ADH295 Hardener with 100 Parts of ADR295 Resin.
Pot life (1000g @ 20°C)	50 minutes
HDT 7 Days @ 20°C	45°C
HDT 12 Hours @ 60°C	83°C

ADR295 may settle on storage. Should this occur, warm the material to 25 – 30°C and carefully reconstitute the material by stirring with a low-speed electric stirrer or a wide bladed spatula.

1. Surfaces must be thoroughly cleaned and grease-free. Clean with solvent and sand to provide an excellent key for adhesion.
2. Damming and sealing to be completed and set before mixing of the components.
3. Following recommended mix ratios, Mix Part A with Part B and thoroughly mix. Avoid excessive agitation; such will cause aeration of the product and consequently loss of mechanicals.
4. Slowly pour the mixed components into the cavity/void. Pour from one side to aid the escaping air. It is recommended to fill cavity to required level, and if air bubbles are detected one may use a hot air gun to break the surface of the air bubbles.
5. Gelation will occur 40 – 80min depending on mass and temperature.

Component Properties

	ADR295	ADH295
Physical State	Yellow Paste	Clear Liquid
Specific Gravity (g/ml)	1.50 – 1.60	0.95 – 1.00
Viscosity @ 20°C (cP)	60,000 – 70,000	80 - 100

Cured Properties

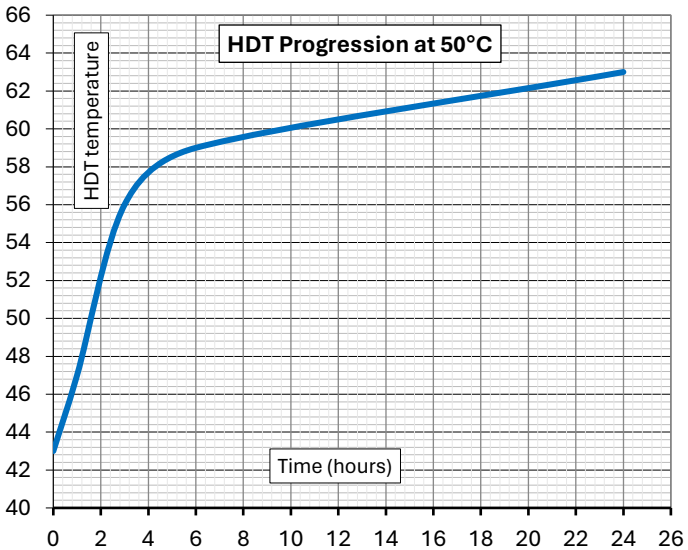
Post cures at elevated temperatures will be effective in achieving a fast cure, but longer cure times at a gradually increasing temperature are recommended for achieving ultimate Heat Distortion Temperature (HDT).

Tensile Strength	50 MPa
Compressive Strength	150 MPa
Flexural Strength	1000 MPa
Tensile Modulus	7.0 GPa
Compressive Modulus	5.0 GPa
Flexural Modulus	7.0 GPa

Note: Cured properties are strongly dependent on the cure conditions. In particular, low temperatures during cure will have detrimental effects on cured properties especially those of thin films. Maximum cured properties will be achieved after a post-cure at elevated temperatures.

Cure Progression Graphs

The following graphs may be used to predict Cure progression during baking cycles. Development Profiles.



Pack Sizes

ADR295 Resin	ADH295 Hardener
3Kg	225g
20Kg	1.5Kg

Storage

The Epoxy Resin will keep for 2 years, If kept in original containers at room temperature (15°C – 20°C) and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

Health & Safety

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 have a moderate sensitizing potential and should be considered to be mild skin corrosives. The Epoxy Resin or Hardener should not be ingested; in the unlikely event, that it is ingested see your nearest physician immediately.

Refer to product safety data sheet for first aid instructions. In addition use:

- Use 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:

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

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