CRC Industries NZ, Auckland NZ

I. Product Description

ADOS E3 Epoxy Mortar is a two part silica based epoxy. Once mixed, the putty can be easily moulded to form permanent watertight repairs with a smooth finish to concrete, brick, mortar and plaster. It adheres well to wet surfaces and is suitable for most underwater repairs. In cured form ADOS E3 Epoxy Mortar is many times harder and more impact resistant than concrete, has a similar consistency and colour to new concrete, and has excellent chemical and UV resistance. ADOS E3 will adhere to PVC and Polyethylene pipes.

II. Application and Directions

PREPARATION:

- Clean and abrade surfaces thoroughly, ensuring all loose paint, laitance etc. is removed.
- Ensure plastic surfaces are abraded with coarse sandpaper.
- Degrease if necessary.

APPLICATION:

- Thoroughly blend one part RESIN PART A and one part HARDENER PART B by volume (1:1). The correct ratio must be adhered to.
- During the blending process it is important to incorporate water. The consistency and wet tack of the mixture is controlled by the amount of water added. Additional water will reduce the viscosity of the mixture and increase the wet tack (stickiness) but will not cause the product to slump.
- Working time of the mixed product is approximately up to 40 minutes at 20℃.
- Apply the ADOS Epoxy Mortar mixture to the prepared surface and push into place with sufficient pressure to ensure full contact with the substrate. It is neither necessary nor advisable to wet the surface before application.
- A smooth finish can be obtained by massaging the mortar with water. If a high gloss finish is required further smoothing with water can be performed up to 40 minutes later.
- Do not use when temperature is below -10℃. Introd uce heating if the temperature is below that value.

CLEANING:

- Wash off skin and tools with soap and water only.

III. Features & Benefits

- **Permanent watertight repairs** – Concrete, brick, mortar and plaster
- **Fast Cure** – Cures hard within 3 hours at 30^{o}C.
- **Permanent and super strong** – Cures harder and more impact resistant than concrete.
- **Cures watertight** – Suitable for repairs to most submerged substrates.
- **Adheres to wet surfaces** – Can be applied underwater.
- **Strong adhesion to PVC and Polyethylene pipes**.
- **Excellent cohesive properties in uncured state** – Easy to work and mould, ideal when a smooth even finish is required.
- **Appearance** – Similar consistency and colour to new concrete.
- **Non-slump** – Suitable for overhead and vertical applications.
- **100% solids** – No shrinkage when cured.
- **Resilient** – Excellent resistance to chemicals and UV rays.
- **Convenient to use** – 1:1 formulation, ensures correct mixing each time.
- **NZ made**
- **ADOS EPOXY MORTAR IN CONTACT WITH DRINKING WATER.**
  ADOS Epoxy Mortar is a two part stoichiometric formulation comprising one part Epoxy Resin (Resin) and one part Epoxy Curing Agent (Hardener)
  Once these two components have been mixed in equal volumetric proportions and allowed to cure for 48 hours all individual chemical species will have taken part in the condensation reaction and as such will have been cross-linked into the cured epoxy matrix.

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The technical assumption is that following immersion in water the level of contamination is at a very low level and as such does not affect the taste or appearance of water, nor support the growth of microorganisms nor the release cytotoxic, mutagenic compounds or metals.

ADOS Epoxy Mortar is expected to pass the required tests to conform to:
AS/NZS 4020:2005 Testing of products for use in contact with drinking water.

IV. Typical Properties and Characteristics

Type	Epoxy
Composition	Silica based epoxy system
Colour	Similar to new concrete
Minimum Temperature for Curing	-10℃
Service Temperature	Continuous 80℃ Intermittent 150ºC
Cure Time @ 20°C	Hard surface within 3 hours Complete Cure after 24 hours
Viscosity	Paste-like
Solids	100% solids
Hold Up	In thick film, excellent. Has an inherent thixotropic aspect, and exhibits no slump during the cure process.
Working Time	Up to 40 minutes at 20℃
Compressive Strength	97.6 MPa
Tensile Strength	26.8 MPa

V. Package Description

Part Number	**Size**
4511	8 litre
4554	10 litre (Resin)
4559	10 litre (Hardener)

VI. Special Precautions

General:
Store in a cool, well-ventilated area and indoor temperature must be between 5ºC and 20ºC. Dispose of empty containers safely. All unused product should be disposed of in conformance with local and HSNO regulations, do not contaminate water supply. Once the two components have been mixed in the correct ratio and allowed to cure Ados Epoxy Mortar putty will not leach into or contaminate water ways. The cured epoxy composite is not considered to be an environmental hazard.

First Aid:
Swallowed – Contact doctor or Poisons Centre. DO NOT induce vomiting. Give glass of water.
Skin – Remove contaminated clothing. Wash with water and soap.
Eyes – Hold open and flush with water for at least 15 minutes. Get medical attention without delay.
Inhalation – Fresh air. Rest, keep warm. If breathing shallow, give oxygen, seek medical attention.

Refer to Material Safety Data Sheet for more details.

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PRODUCT WARRANTY: CRC offers a conditional warranty of this product for the period of 2 years from the date of manufacture.