

## am FLEXPROOF 502 ECO

### DESCRIPTION

**am FLEXPROOF 502 ECO** is an elastomeric cementitious waterproofing coating for water retaining and water excluding waterproofing structures. It is designed to withstand high water pressure in many different applications. Formulated with non-toxic materials, **am FLEXPROOF 502 ECO** is ideal for potable water usage. This pre-packed two component system is based on special synthetic resin dispersion and a blend of selected cements. **am FLEXPROOF 502 ECO** exhibits excellent crack accommodation qualities even after long term water immersion.

### FEATURE/BENEFITS

- Flexible & elastic, can bridge over cracks
- 1mm coating = 80cm of concrete protection
- Ability to withstand heavy topping without fracture
- Withstands high hydrostatic pressure
- Excellent adhesion to sound substrate
- Bonds to green concrete

### APPLICATION RANGE

- Water Tanks
- Swimming pools and pool decks
- Corrosion protection for reinforcing steel
- Under marble, granite, even in wet areas
- Suitable for use on new or refurbishment projects
- Water features and ponds
- On external environmental decks
- Protect concrete against carbonation, chloride and salt attack; Applicable to areas near the seashore or affected by wind carrying sea salt.

### SPECIFICATION CLAUSE

All areas indicated (stat areas) shall be waterproofed with **am FLEXPROOF 502 ECO**, a two-component reactive polymer composite or similar approved, manufactured to the following specification:

Composite: Reactive acrylic cement composite, the material shall be applied at the rate of 0.8 – 1.0 kg per m<sup>2</sup> per coat (2 coats required) and strictly in the manner recommended by the manufacturer.

### PACKAGING

Available in two pack sizes: 30kg set, Comp A – 20kg & Comp B – 10kg.

### SHELF LIFE

12 months when stored in the original unopened packaging.

### COVERAGE

Approximately 0.8kg – 1.0kg per m<sup>2</sup>/ coat

### SURFACE PREPARATION

Ensure substrate is clean and sound, free of dust, loose particles, grease or any other contaminants. The substrate must be damp but free from standing water.

### MIXING

Pour the liquid component into a clean pail, and slowly add the powder component whilst stirring using a slow speed drill mixer until the mixture is homogeneous and free of lumps. Do not mix more material than can be utilized in one hour. **DO NOT RE-TAMPER WITH WATER.**

## APPLICATION

Apply the mixed **am** FLEXPROOF 502 ECO using a stiff bristle brush, roller or trowel. For heavy 6 – 10 mm depressions, honeycombs etc. use a thicker mix by using slightly less liquid component. Where more than one coat is necessary, apply the second or subsequent coats after the previous coat has dried. Second coat after 1-2 hours curing of the previous coat.

## STORAGE

Conditions of storage are the same as those for cement, i.e. damp-free, preferably palletized.

## CLEANING

Tools and equipment should be cleaned immediately with water.

## PRODUCT LIMITATIONS

- Concrete substrate must be thoroughly prewetted before the coating is to be applied.
- Part mixing is not recommended.

## SAFETY DATA

**am** FLEXPROOF 502 ECO is a cement-based product and should be handled and treated with caution. Avoid contact with eyes and wear face mask to prevent dust inhalation. Seek immediate medical assistance should irritation or ingestion occur.

## USER NOTES

The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is the responsibility of the user to ensure that the products are used in accordance with Asia Mortar's and in applications for which they are intended.

## TECHNICAL DATA

Properties of Cured Membrane	Testing Method	Result
Elongation at Break (%)	ASTM D412 – 06a	≥ 150%
Tensile Strength (N/mm <sup>2</sup> )	ASTM D412 – 06a	> 0.9N/mm <sup>2</sup>
Crack bridging ability under standard conditions	BS EN 14891:2012	> 0.8 mm
Chloride content (%)	ISEA method	≤ 0.1 %
Set – to – touch (min)	ASTM D 1640	Within 2 hours
Hardness (Shore A)		> 50
Water penetration	DIN 1048 PT 5	0mm
Adhesion strength	BS EN 14891:2012	> 0.5N/mm <sup>2</sup>
Water impermeability of 3 bar for 7 days	BS 14891:2012	pass
Product sensing	Component A	Component B
Supply Form	Powder	Liquid
Colour	Grey	Milky White
Specific Gravity	-	1.03
Bulk Density	1.38	-
Mix ratio (by weight)	2	1
Specific Gravity (Mixed)	1.80 kg per lite	



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