

Armor

High-Strength Waterproof Barrier for Wastewater Applications



DESCRIPTION

Armor is a premium-grade, hydrophobic coating engineered for high-performance protection. With exceptional adhesion, Hydrogen Sulphide, acid and alkali resistance, and the ability to withstand compressive loads up to 14.7 MPa, it forms a durable, waterproof barrier ideal for demanding environments.



KEY FEATURES

- Outstanding Acid Resistance: Performs in extreme acidic conditions, including sulphuric, phosphoric, and hydrochloric acids
- Alkaline Resistant: Also resists chemical degradation from alkaline exposure
- Waterproof & Hydrophobic: Creates a barrier that prevents water ingress
- Potable Water Safe: Certified to AS/NZS 4020:2005
- High Strength & Low Shrinkage
- Full compressive hardness in approx. 12 hours
- Tested to EN 1348, AS134, and NZS 3112
- Proven Durability: Accelerated testing confirms 50+ year performance in pH 3.5 sewer conditions



Mastermix Ltd. 21R Bergin Rd, Foxton
Ph 06 363 5686
E mail: mastermix@mastermix.co.nz

HEALTH AND SAFETY

Armor is cement-based and free from aggressive chemicals.

Avoid excessive skin contact, eye contact or swallowing. Freshly mixed concrete or mortar may cause skin irritations, including alkaline burning and dermatitis. Avoid contact with the skin by wearing suitable clothing and gloves. In the event of contact with the eyes or skin, rinse thoroughly with water. If swallowed, drink plenty of water and do not induce vomiting. Seek medical advice.

MIXING AND APPLICATION

Prepare the surface of the substrate to ensure it is clean of: Grease, loose and weak materials, other foreign matter. High pressure washing at 3,000 - 10,000 psi is recommended to affect a good clean substrate with the excess water being removed with compressed air.

Mix 20kg of Armor with 2 litres of clean water. Start with 1 litre and keep adding water until a homogeneous, lump free mix is obtained. Mix by mechanical means for several minutes until the mix peaks when the mixer is lifted out of the mix. Allow to mature for 5-8 minutes before applying. Spray or trowel onto the substrate ensuring a good keying is obtained. On initial application on vertical faces it may be found that trowelling needs to be done bottom to top for placement. As product sets final finishing can be trowelled in any direction. For thick build ups, the product will key to itself.

IMPORTANT

Armor contains the correct levels of plasticiser and additives. Adding extra may seriously compromise the correct function of the mix. **DO NOT ADD EXTRA WATER**, as this may cause shrinkage of the product. Once the product is placed and finished, **DO NOT REWORK** as this may affect the final setting of the mix. Clean tools with water while the product is still green. Wear gloves to facilitate ease of hand cleaning.

Disclaimer: Technical details and recommendations are based on our best knowledge and experience. The user must ensure suitability for the specific project before application, and is fully responsible for the product's use and its consequences.

TECHNICAL DATA

Strengths	<ul style="list-style-type: none">Compressive: 14.7 MPaFlexural: 6 MPaAdhesion: >1 MPa
Shrinkage	0.005%
Alkaline Resistance	Yes
Acid Resistance	Yes
Water resistance	Waterproof and Hydrophobic
Potable Water Safe	Yes (AS/NZS 4020:2005 compliant)
Working Time	Up to 20 minutes at 20°C
Curing Time (varies with temperature, humidity, and moisture content)	Approx. 12 hours at 20°C for compressive hardness:
Application Temperature	7°C - 25°C
Coverage (Approx.)	20kg @ 10 mm: 1.2 m ²
Shelf Life	6 months (store in sealed pails in cool, dry area)
Durability	Tested in pH 3.5 sewer conditions and verified for 50+ years

WARRANTY

Warranties may be offered, subject to project assessment and application by a MasterMix-approved applicator.



Contact our Technical Department for further information and expert guidance on your application.

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