

Duromastic Ultra Bitumen Emulsion

Elastomeric SBS modified waterproofing coating

DESCRIPTION

Duromastic Ultra is a liquid applied, single-pack elastomeric waterproofing coating that provides long lasting waterproofing on applications which require enhanced elongation characteristics. **Duromastic Ultra** is made of SBS rubber modified bitumen which cures to form a seamless waterproofing membrane that is durable, highly flexible and elastomeric. Its excellent elastomeric property allows the cured membrane to accommodate thermal stress typically found in roofing application.

ADVANTAGES

- Easy to apply by brush, trowel and sprayer.
- Completely seamless and lap free membrane over the substrate.
- Safe to use – water-based formulation with no harmful vapour.
- Excellent elastomeric property of the cured film accommodates thermal movement in the substrate without cracking.
- Excellent adhesion to the substrate prevents lateral migration of water underneath.
- No flow or sagging of the film at elevated temperatures even on vertical surfaces.
- Can be applied to damp surface without standing water such as green concrete surface.

USES

Waterproofing

Typical applications include concrete roofs, retaining walls, external concrete walls, asbestos cement roofs, exposed metal roofing, rejuvenation of asphalt roofing, floor slabs, bathrooms, kitchens, balconies and planter boxes.

SPECIFICATION CLAUSE

Supplier specification

Liquid applied elastomeric SBS modified bituminous waterproof membrane where shown on the drawings shall be **Duromastic Ultra** as obtained from Regis Industrial. It must be used in accordance with Regis Industrial's current product data sheet.

Performance Specification

Liquid applied, waterbased elastomeric waterproofing membrane where shown on the drawings shall be made of SBS rubber modified bitumen. The membrane when cured shall be capable of an elongation of 1000%. Its tensile strength shall be not less than 0.3N/mm² for unreinforced membrane. It shall be used in accordance with Regis Industrials current product data sheet.



APPLICATION INSTRUCTIONS

Surface Preparation

Surfaces shall be dry, clean and free from dust, oil, grease, moss and loose material. Ensure no moisture is trapped within substrate layers. Remove any oils with OmniWash detergent or other suitable degreaser.

Priming

Porous surfaces such as concrete or brick should be primed with Duromastic SB-4 Bitumen Paint or Duromastic EP Hibuild Epoxy.

Metal surfaces should be primed with Duromastic SB-4 Bitumen Paint at a coverage of 9-10 m²/litre.

Allow to dry prior to **Duromastic Ultra** application.

Membrane Application

Stir the emulsion thoroughly before use. **Duromastic Ultra** may be applied by roller, brush or spray. Apply a minimum of two coats at 1-2m²/litre per coat. Allow to dry between coats and apply each coat at right angles to the previous coat. **Duromastic Ultra** normally cures within 24 hours of application. Where enhanced strength and puncture resistance is required, **Duromastic Ultra** can be reinforced with **Fibreglass CSM**. Protect from rain and frost until fully cured.

For exposed surfaces subjected to direct sunlight, allow to cure for 4-5 weeks, then apply 1 top coat of **Gilsonite Aluminium** at 6-9m²/litre.



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COVERAGE

Coverage rates will vary depending on the actual surface environment and application. The typical coverage is about 1.5 litres/m² for 2-3 coat application. 1.5 litres/m² coverage gives a dry film thickness of about 1mm.

HEALTH AND SAFETY

Flammability: Non-flammable.

Skin Contact: Occasional contact is unlikely to have any adverse effect except on particularly sensitive skin. As a general precaution, avoid repeated or prolonged contact. Remove skin contamination when wet with water. Use a proprietary hand cleaner if the product has dried.

Eye Contact: Unlikely to cause damage, no special precautions are necessary. However, as eyes are a sensitive area, contact should be avoided. In the event of accidental contact, irrigate immediately with plenty of clean water.

CLEANING OF TOOLS

Clean immediately after use with water. Use kerosene, white spirit or mineral turps if the material has dried. During work, place tools in water when not in use.

STORAGE

Shelf life is 12-24 months in original sealed containers stored under cover at temperatures between 5°C and 40°C. Must be protected from frost conditions.

PACKAGING

Duromastic Ultra 4, 10 and 200 litre

Complementary Products

Duromastic SB-4 4, 20 and 200 litre

Duromastic EP Hibuild 8 and 20 litre

Fibreglass CSM 1m x required length

Gilsonite Aluminium 4, 10 and 20 litre

PRODUCT DATA SUMMARY

Property	Test	Typical Values
Colour, Wet		Brown
Colour, Dry		Black
Appearance		Thick, smooth cream
Solid Content		>55% by volume
Specific Gravity		About 1
Surface Drying Time		4 to 6 hours, depending on temperature and humidity
Coverage		0.50-0.75 litre/m ² per coat.
Flash point		Water-based, non-flammable
Water Vapour Transmission	ASTM E96	9g/m ² /24 hours
Tensile Strength	ASTM D412	
●unreinforced		0.3 N/mm ²
●reinforced with fibreglass CSM		2.0 N/mm ²
Elongation at break	ASTM D412	
●unreinforced		>1000%
●reinforced with fibreglass CSM		>190%
Shore A Hardness	ASTM D2240	>50
Adhesion to substrate	ASTM D4541	0.2 N/mm ²
Crack Bridging	ASTM C836	Able to bridge 2mm crack
Water Penetration Test (2m waterhead, 6 hours)(Reinforced with fibreglass CSM)	DIN 1048:Pt 5	Passed; No leakage observed.
Accelerated weathering (2000 hours exposure)	ASTM G53	No defects observed
Chemical and water resistance		Resistant to water, alcohol, most salt solutions, some dilute acids and alkalis. Not resistant to oil, solvents and some detergent solutions.

Typical values may represent average values from sample tested.

The information contained in this data sheet is based on tests and experience believed to be reliable and should be taken as a general guide only. The users must satisfy themselves as to the suitability for a particular application. Since the use of this product is beyond the control of the distributor, no warranty is expressed or implied.

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