DUROTECH

DUROMIX™ EPOXYCOAT

TWO PACK EPOXY WATER BASED COATING

DUROMIX™ EPOXYCOAT is a two part, waterborne epoxy coating system designed to act as moisture and barrier coating primarily over cemetitious substrates.

PRINCIPLE CHARACTERISTICS

- Water based, user friendly
- Low odour
- Excellent water resistance
- Approved for use with potable water conforms to AS4020(1999)
- Excellent adhesion to fresh concrete, brick, masonry, compressed fibro stone and timber.
- Applicable to damp surfaces
- Resists hydrostatic pressure when cured
- Requires a UV resistant top coat when exposed to direct sunlight.

USE AREA

- Fish ponds, top coated with Epoxy Wear
- Retaining walls
- Reverse Tanking
- Primer for acrylic membranes on damp surfaces
- Waterproofing concrete slabs before vinyl and timber overlays
- Moisture barrier on damp walls/floors
- Dust sealing interior concrete floors

PACKAGING

- 20 Litre (10A + 10B)
- 4 Litre (2A +2B)

TECHNICAL INFORMATION

Colour	Grey
Pot Life	1 - 2 hours at 25°C
Mix Ratio	1:1 by volume
Recoat Time	5 hours at 25°C
Full cure	7 days at 25°C 50%RH
Coverage	3-4m²/litre/coat, 5m²/Litre as a primer
Water Vapour Trans	11.3g/m²/24hr
Specific Gravity	Approx 1.25 @ 25°C
Viscosity	Approx 15000cps
Clean Up	Clean equipment with water before setting commences
Shelf Life	12 months in unopened containers stored above 5ºC and below 20ºC

APPLICATION

All surfaces to be free of contamination, sound and not more than slightly damp. If necessary acid etch and water blast unsound or powdery concrete surfaces. Remove all acid residue before coating. Holes, non-structural cracks and other surface deformities should be repaired. Very porous or honeycombed concrete may require 3 coats, the first acting as a primer, penetrating into the pores of the concrete. Prior to use power mix Pack A and Pack B over a period of 5 minutes. Use mixed material within 1½ hours at 20°C. To seal or prime concrete, apply 2 or more coats by brush or roller at 5m²/Litre per coat, to provide a seamless epoxy lining. To use as a water vapour barrier apply at 3sqm/litre/coat. Care should be taken to fill all voids and pin holes. Duromix™ Epoxycoat is rigid when cured and will not absorb movement cracks. Time between coats: 5 hours to 24 hours at 20°C. Minimum cure temperature 10°C. Do not apply if Relative Humidity is above 85%. Duromix™ Epoxycoat is a vapour barrier and not a membrane. A dedicated waterproofing membrane should be used. Surfaces may be slightly damp but not wet.
Refer to Durotech MSDS prior to use.

PRECAUTIONS

Some individuals may experience a skin reaction to Duromix™ Epoxycoat. Those individuals should wear personal protection equipment. Refer to our MSDS for more information.

- Duromix™ Epoxycoat cure rates will be dramatically reduced if the relative humidity is above 85%.
- Do not apply to steel or metal surfaces, as corrosion will occur.
- Do not add cemetitious products to Duromix™ Epoxycoat. Do not dilute.
- Duromix™ Epoxycoat is a barrier coating and not a membrane. A dedicated waterproofing membrane should be used.

Duromix™ Epoxycoat is not trafficable and must be covered with floor toppings or conventional coverings prior to foot or vehicular traffic. In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during curing cycle to enable adequate evaporation of the coating.

- Duromix™ Epoxycoat will tend to chalk when exposed to UV light.
- Allow to cure for a minimum of 24hours at 25°C/50% RH before applying waterproof membranes, adhesives, mortars, decorative coatings or other surface treatments.
- Discard any material that has exceeded the pot life or working time of the product.
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

COLD SUBSTRATES AND COOL CLIMATIC CONDITIONS

Duromix™ Epoxycoat cure rates will be dramatically reduced if substrate surface or ambient temperature is below +10°C. If Duromix™ Epoxycoat is applied in cooler climatic conditions, substrate temperatures can produce amine blush, resulting in an oily residue and or areas of uncured tacky discolorations. If amine blush or any other form of surface contamination or discoloration appears on the coating, Duromix™ Epoxycoat should be allowed to cure and then be washed with clean, water, Methylated Spirits or Xylene depending on the severity. Ensure thorough removal of the contamination prior to application of any further coating to ensure no delamination. Follow mixing instructions and allow an extra minute to ensure a homogeneous paste is obtained. Allowing standing for 5 minutes after mixing will assist in accelerating the drying reaction. Never apply thin coats as the rapid moisture loss will arrest or slow the drying reaction. Thin coats can also cause an amine blush. Store Duromix™ Epoxycoat in a 20°C environment 24 hours prior to use. If possible warm the substrate surface area by an air blower or use a blower after application. Always provide adequate ventilation during the curing cycle.

CLEAN UP

Wash all equipment in water or water/detergent immediately on completion of application and mixing. Duromix™ Epoxycoat will cure under water; hence ensure dirty equipment is not left soaking in water.

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14 Essex Street, P.O Box 5092, Minto, NSW 2566

+61 2 9603 1177 | +61 2 9475 5059 | sales@durotechindustries.com.au

www.durotechindustries.com.au