



# DUROMIX™ EPOXYWEAR

## A DURABLE CHEMICAL RESISTANT WATER BASED EPOXY COATING

Duromix™ Epoxywear is a high performance, two component, water-based industrial epoxy coating system available in a range of colours.

Duromix™ Epoxywear is designed for floor and wall applications where durability and chemical abrasion resistance is required.



### PRINCIPLE CHARACTERISTICS

- ◆ Can be used successfully as a wall, ceiling and floor surface coating.
- ◆ Non-flammable, negligible odour and toxicity.
- ◆ Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibre board, stone and timber.
- ◆ Resists mildew, mould and bacteria growth.
- ◆ Withstands steam and chemical cleaning
- ◆ Long pot life and short touch-dry time.
- ◆ Aged coating may be re-coated with minimal surface preparation.
- ◆ Easy graffiti removal from cured finish.



### USE AREA

- ◆ As a low odour, very hard wearing and chemically resistant finish coating for commercial, industrial and hygiene areas subjected to rigorous cleaning and high wear.
- ◆ As an abrasion and chemically resistant floor coating with or without non-skid properties
- ◆ As an anti-graffiti coating for high traffic areas such as railway stations, and car parks
- ◆ As a mould and bacteria resistant hard finish for wash rooms, shower cubicles, canteen areas and food preparation areas.
- ◆ As a high performance, new construction or maintenance coating in the food industries such as abattoirs, dairies, canneries, wineries, etc.
- ◆ As a finish coating in areas requiring low flame spread qualities.
- ◆ In ponds and water features



### PACKAGING

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

## TECHNICAL INFORMATION

Colour	Grey or Black , Gloss. Other colours available.
Pot Life	2 hours @ 25°C
Mixing Ratio	1:1 by volume
Re Coat Time	6-8 hours @ 25°C, 50%R.H.
Full Cure	7 days @ 25°C, 50% R.H.
Decorative Coverage	Min. 2 coats each at 5-7 sq/litre/coat
Industrial Coverage	Min. 2 coats each at 2-4 sq/litre/coat
Solids	40% volume, 50% weight
Specific Gravity	Approx. 1.25 @25°C
Viscosity	Approx. 2000cps
VOC	48.4 grams/litre, ready to use
Shelf Life	12 months, unopened and stored above 5°C

## CLEAN UP

Wash all equipment in water and or detergent immediately on completion. Duromix™ Epoxywear will cure under water, hence do not leave items soaking.

## SURFACE PREPARATION

All surfaces must be structurally sound and all previous coatings, epoxies, adhesives, efflorescence or laitance should be removed by chipping, abrasive blast cleaning, high pressure water washing (6000psi), grit blasting, mechanical scrubbing or other suitable means. All surfaces must be cleaned free from dirt, grease oil or other surface contaminants. Holes, non-structural cracks and other surface deformities should be repaired. Concrete should preferably be below 6% moisture, although up to 9% can be tolerated in some instances where there is other routes for moisture escape.

## APPLICATION

Porous concrete will require 3 coats of Duromix™ Epoxywear. The first acting as a primer, should be diluted 10% with water to allow penetration into the pores of the concrete. Then apply 2 full coats. Mixing should be by means of a mechanical forced action mixer with a high shear stirrer. Premix each individual component then join the two components, by equal volume, mixing thoroughly for a minimum of 5 minutes until a blended coating is obtained. If required add Colour pack to Part A (Hardener) before joining parts A & B. Avoid trapping air during mixing as this may cause pin holing. Only mix as much as may be used within the pot life of the product. Duromix™ Epoxywear is a minimum two coat system. Apply with a brush or roller, and ensure to work the material into the substrate surface to fill voids and eliminate pin holing. Successive coats should be applied at right angles to the previous coat. It is recommended that as application progresses, the coating depth be tested at random points with a wet film gauge.

## PRECAUTIONS

Some individuals may experience a skin reaction to Duromix™ Epoxywear. Refer to Durotech MSDS prior to use. Duromix™ Epoxywear cure rates will be dramatically reduced if the relative humidity is above 85%. Cure speed will also be dramatically reduced if substrate surface or ambient temperature is below +10°C. Do not apply to steel or metal surfaces, as corrosion will occur. Do not add cementitious products to Duromix™ Epoxywear. Duromix™ Epoxywear is not a waterproof membrane on its own.

A dedicated waterproofing membrane should be used. In enclosed areas, such as water tanks or reservoirs, basements, or cubicles, ventilation should be provided to enable adequate evaporation of the coating. Allow to cure for a minimum of 24 hours at 25°C/50% RH before applying waterproof membranes, adhesives, mortars, decorative coatings or other surface treatments. Duromix™ Epoxywear will tend to chalk when exposed to UV light. 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

If Duromix™ Epoxywear is applied in cooler climatic conditions, substrate temperatures can produce amine blush, resulting in an oily residue and or areas of uncured tacky discolorations. It should be allowed to cure, then washed with clean, fresh water, Methylated Spirits or Xylene depending on the severity. Ensure removal of the contamination prior to application of any further coating to ensure no de-lamination. Follow mixing instructions and allow an extra minute to ensure a homogeneous paste is obtained. Allow to stand for 5 minutes after mixing as this will accelerate the drying time. 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™ Epoxywear in a 20°C environment 24 hours prior to use. If possible warm the substrate surface area by an air.



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