

# EPOXY FLOOR SEAL

## MULTIPURPOSE WATER BORNE TWO PACK EPOXY COATING

### DESCRIPTION

Epoxy Floor Seal is a general purpose, water dispersed epoxy resin coating system. It is solvent free, non-flammable, colourless and non-toxic when dry. Clear and pigmented types are available. Epoxy Floor Seal is specially designed for use as a low cost coating/sealer for the protection of concrete.

### AREAS OF USE

Abrasion resistant coating for parking decks, industrial floors, terraces, shopping centres, cellars, warehouses, food processing/storage areas and all light traffic areas.

Dust proofer and surface hardener for concrete floors, even floors which have been 'soft' can be effectively treated.

Water proofer, basements, concrete floors and oil tanks can be effectively waterproofed with Epoxy Floor Seal. However, for this type of duty, it is recommended that three coats are applied. Typical applications are the waterproofing of damp concrete floors to facilitate the laying of tiles.

Protection, against thawing salts of kerbs, bridge parapets, sockets or other mortar and concrete structures.

Tunnel protection coating to improve the visibility conditions and to facilitate the maintenance.

### ADVANTAGES

- User Friendly – Solvent free
- Low Odour
- Non toxic
- Easy to apply, easily cleaned
- Hygienic - provides easy to clean dust free surface
- Excellent adhesion on dry or damp surfaces
- Resistant to a wide range of dilute chemicals
- Available in two different colours

### APPLICATION

#### Preparation

All surfaces must be sound, clean and free from grease, oil, dirt or other contaminants. Mould release agents and any wax/resin based concrete curing compounds should be removed prior to application. Damp down porous surfaces.

#### Mixing

Use a slow speed stirrer to mix the resin and hardener and mix for 3-5 minutes until a uniform colour, homogeneous emulsion is obtained. Up to 10% water may be added for pre-sealing or spraying though this will reduce film thickness and is not generally recommended.

#### Placement

Apply by brush/roller using standard painting techniques. On porous surfaces a priming/sealing coat of Epoxy Floor Seal clear is advisable to seal the surface and ensure adequate bond. Two coats are required to achieve optimum protection. The second coat should be applied when the first coat is 'touch dry' in approximately 3-4 hours. A non-slip finish may be achieved by sprinkling extra fine aggregate onto first coat while wet. Allow initial cure, brush off excess aggregate and apply second coat. Coverage rates will be significantly reduced and a third coat may be necessary.

Epoxy Floor Seal should never be applied when ambient or substrate temperature is less than 5°C.

#### Cleaning of tools

All tools and mixing equipment should be cleaned immediately after use with water. Once cured, Epoxy Floor Seal cannot be dissolved and is difficult to remove mechanically.

### COVERAGE

As a coating: 6-8m<sup>2</sup> per litre per coat (two coats recommended)

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## PACKAGING

The Epoxy Floor Seal is available in 4.5 litre composite units. The Epoxy Floor Seal is available in two different colours, clear and also grey.

## TECHNICAL DATA

Port life:

- Approximately 45 minutes (mixed in pail) at 20°C.
- Approximately 90 minutes (poured onto substrate) at 20°C.

Curing:

At 20°C; open to light traffic after 24 hours.

Dry film thickness:

- 40-50 microns (clear)
- 70-90 microns (pigmented)

Bond strength:

- 2.7N/mm (clear)
- 2.2N/mm (pigmented)

Chemical Resistance: (see table below)

## STORAGE

Epoxy Floor Seal will store up to 12 months under normal warehouse conditions.

## HEALTH & SAFETY

Care should be taken to avoid skin or eye contact.

Wear gloves and protective clothing. The product is harmful if taken internally. Keep containers properly closed when not in use. Adequately ventilate the working areas. Guard against naked lights and smoking.

Full Health & Safety data sheets are available on request.

CHEMICAL AGENT	RESISTANCE	TEST PERIOD
Water (H2O)	Good	18 months
Caustic Soda solution up to 20% (NaOH)	Good	18 months
Ammonia 10% (NH <sub>3</sub> )	Good	18 months
Ethyl alcohol (10%) (spirit)	Good	18 months
Lactic acid 5%	Moderate	18 months
Acetic acid 5%	Moderate	1 week
Soap water (5% amber)	Good	10 weeks
Table salt solution (NaCl, 20%)	Good	18 months
Nitro-thinner	Good (sl.soft)	24 hours
Toluene Butylester	Moderate (soft)	24 hours
Sodium Sulphate, sol 1%	Good	3 weeks
Redfox 65 (softener)	Good	6 months
Oxalic Acid (pH=1)	Good	10 weeks
Diocetyl-phtalate (DOP- plasticiser)	Good	6 months
Standard petrol as long as no alcohol addition	Good	18 months
Super petrol as long as no alcohol addition	Good	18 months
Petroleum/Mineral oil	Good	12 months
Crude oil	Good	12 months
Sodium Hypochlorite (bleach)	Good	12 months

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