



FORMFIX

Resin Based Construction Materials

EPOFORM EP & EP/PF

Epoxy Pitch Based Waterproofing & Protective Coating

Description

EPOFORM EP is a two pack epoxy resin and pitch based system which forms a tough, flexible, impermeable and well bonded membrane. It is ideal for waterproofing and for providing protection against corrosion due to atmospheric pollution. It can also be dressed with a suitable aggregate to provide a tidy non-slip surface.

Typical applications of **EPOFORM EP** include:

- Tanking of concrete structures
- Waterproofing bridge decks
- Sandwich damp-proofing course for floors
- Protection of piers and abutments
- Protective coating of steel structures
- Protective chemical resistant coating for timber
- Treatment for permeable asphalt
- Non-slip aggregate dressing binder
- Waterproofing of felt or similar type sheet roofing

Colour: Black is the standard colour

Use

Surface Preparation

Surfaces must be sound, clean, dry, free from dust, loose materials, oils, grease and other deposits. Concrete should be free from excessive laitance and acid etched with a product such as **FORMCLEAN** if necessary. Steel should be shot blasted or similar to remove all rust and scale, followed by immediate treatment with an etch primer, zinc rich primer or similar. Asphalt should be scarified and if necessary treated with a detergent to remove surface oils and grease. Timber should be coarse sanded.

Mixing

Entire contents of Resin and Hardener components should be **thoroughly** mixed together, advisably using a powered blender, in a clean plastic bucket or similar to obtain a **completely uniform blend throughout**, this being essential to achieve full cure and optimum performance as well as to ensure eventual disappearance of any residual odour. Where early **odour-free properties** are required, use **EPOFORM EP/PF**. For airless spray application only material may be thinned by the addition of up to 70ml. per kilo of a suitable solvent such as **RESOKLENS**. During cold weather, mixing and application will be facilitated by warming the pack to a temperature of approximately 20°C by application of indirect heat.

Application

Immediately after mixing apply by brush or airless spray. If applying by brush material should be brushed in two directions at right angles to each other. For two coat application top coat should be applied after first coat has become sufficiently firm so as not to be displaced by further brushing, and, to ensure good inter-coat adhesion, should preferably be carried out not later than early the following day. Do not apply in temperatures below 5°C.

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Coverage

The coverage is 2-4m²/Kg per coat depending mainly upon surface texture. If material is thinned, as described above for spraying, two coats should be applied and if applying by brush to vertical surfaces or soffits application may be facilitated by applying two well brushed out coats instead of one heavy coat. On 'new build' applications, or where a smooth surface is to be coated, increased coverage rates may be achieved.

For binding in a non-slip aggregate dressing a thicker build will be required, applied in one coat, and as a guide a coverage of 0.8 kilos per sq. metre will be required for a fine aggregate dressing and up to 1.3 kilos per sq. metre for a coarse aggregate dressing. The aggregate should be embedded to approximately 2/3 of it's size to ensure good grip. For non-slip dressings an excess of aggregate is applied immediately after application of coating and the non-bonded residue brushed off the following day leaving treatment for a further 24 hours before being put into use.

Pot Life

This is influenced by temperature, volume of mixed material and type of container. Lower temperature, smaller volume and a wider container giving a shallower bulk of material, will extend pot life. In practice under normal conditions a pot life of approximately 35 minutes can be expected.

Cure Time

Full cure and optimum performance is achieved after approximately 7 days at 20°C. Lower temperatures will prolong cure time but treated surfaces will generally set sufficiently firm to take light foot traffic the following day.

Cleaning of Equipment

Use **RESOKLENS** for cleaning equipment immediately after use and before material on it has set firm.

Storage

Keep all containers sealed, store at room temperature and away from direct heat. Under normal temperate and dry conditions storage life of one year can be expected.

Health & Safety

EPOFORM EP should be handled carefully and skin contact, exposure to high vapour concentrations and ingestion avoided. Wearing of overalls, gloves and protective eyewear should be considered together with the application of a suitable barrier cream to hands where necessary. Proper regard should be taken to the precautions necessary when storing and handling **EPOFORM EP** and **RESOKLENS**.

Refer to separate **EPOFORM EP** Health and Safety literature.

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