Epotac Technical Specifications

Epoxy Resin Based General Purpose Adhesive

EPOTAC is a two pack epoxy resin based low viscosity adhesive possessing extremely high mechanical strengths, excellent resistance to a wide range of chemicals and high bonding strength to most building surfaces.

It has built-in flexibility which enables it to accommodate normal thermal movement in concrete without loss or adhesion. Applications include a primer system for screed coatings, vapour and chemical resistant coatings and can be formed into boding pastes, grouts and mortars when combined with suitable fillers.

Advantages

- Primer/Bonder for EPOMAST MORTAR
- Moisture, vapour proof and chemical resistant coatings
- Forming bonding pastes, grouts and mortars when combined with suitable fillers

Typical Strengths after Full Cure: Bond Strength to Concrete:

Compressive 85 N/mm² Tensile 2.8 N/mm² - concrete failure

Tensile 26 N/mm² Shear 9.3 N/mm² - concrete failure

Flexural 42 N/mm²

Application

Cure Time:

Full cure is achieved after approximately 7 days at 20°C. Lower temperatures will prolong cure time.

Colour:

The standard material is a medium amber colour which is transparent when applied as a coating.

Surface Preparation:

Surfaces should be sound, clean, free from excessive laitance, dust or other deposits. For heavy duty bonding. Laitance should be removed entirely by scarification or acid etching with a product such as **ADOCLEAN**. The prepared surface should be free from surface water but residual dampness can be tolerated.

Mixing:

Drain entire contents of Hardener pack into Base pack and mix very thoroughly to obtain a completely uniform blend. Pot life will be extended if material is poured into a wider container immediately after mixing. Suitable fillers for forming bonding pastes, grouts and mortars can be supplied by us but users wishing to supply their own should please consult our Technical Department for advice.

Immediately after mixing, brush on to the prepared surface, brushing in two directions at right angles to each other. On very porous surfaces where material has soaked in, apply an additional coat. If applying a topping, apply whilst material is still tacky. Time for this is dependent upon temperature but under normal conditions topping should be placed within 3 hours. When using as a moisture proof or protective coating a minimum of two coats should be applied allowing first coat to become sufficiently firm so as not to be displaced by further brushing but not more than 18 hours between coats. Do not apply in temperatures below 5°C.

EPOTAC is often used for waterproofing basement structures where a finishing render or screed is to be applied. In such instances, if for practical reasons it is not possible to apply the render or screed to the tacky coating, proceed in the following manner. To the tacky coating apply a splatter coat consisting of one part clean washed sharp sand to one part fresh Portland cement, the gauging liquid to consist of clean water, then scratch surface of splatter coat when sufficiently stiffened. This will leave a firmly bonded and keyed surface for subsequent treatment. When carrying out this treatment always treat walls first and then remove any loose droppings before treating floors. When tanking with conventional sand cement renders the use of EPOTAC will enable considerable economies to be achieved, firstly by dispensing with the need for bush hammering or hand hacking, and secondly by a reduction in the number of render coats which is facilitated by the waterproofing properties of the adhesive coating.

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 lift. In practice under normal conditions a pot life of approximately 30 minutes can be expected.

Cleaning of equipment

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

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Coverage

3-5m² per Kg per coat dependent upon surface texture and porosity.

Storage

EPOTAC is flammable. Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Avoid any build-up of electrostatic charge in the immediate area. Ensure that lighting and electrical equipment nearby are not a source of ignition.

Shelf Life

If stored in unopened containers and as per the conditions set above, shelf life is in excess of 12 months from date of manufacture.

Specification

EPOTAC is manufactured by Adomast Manufacturing Ltd and shall be applied strictly in accordance with the manufacturer's instructions. For specific advice regarding any aspect of this product, please consult our Technical Department

Health and Safety

EPOTAC 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 given to the precautions necessary when storing and handling flammable solvents which are present in RESOKLENS.

Refer to separate EPOTAC, ADOCLEAN and RESOKLENS Health and Safety leaflets.

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