

Data Sheet

EPOTAC

General Purpose Adhesive



EPOTAC is a two pack, epoxy resin based, low viscosity system possessing extremely high mechanical strengths, excellent resistance to a wide range of chemicals, tenacious bond to most sound building surfaces, and a built-in flexibility which enables it to accommodate normal thermal movement in concrete without loss of adhesion.

EPOTAC has a multitude of applications which include:

- Primer/Bonder for **EPOSCREED**
- 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/mm ²	Tensile	2.8 N/mm ² - concrete failure
Tensile	26 N/mm ²	Shear	9.3 N/mm ² - concrete failure
Flexural	42 N/mm ²		

Cure Time

Full cure is achieved after approximately 7 days at 20⁰ C. Lower temperatures will prolong cure time.

Colour

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

USE

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.

APPLICATION

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 ourselves 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 5⁰ 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

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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.

Coverage

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

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.

Storage

Keep all containers sealed, store at room temperature and away from direct heat. Under normal temperatures and dry conditions storage life is in excess of one year.

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.