CONTECH PRODUCT DATA

CONSEAL

AN EPOXY BASED WATERPROOFING COMPOUND AND CONCRETE ADHESIVE

Conseal is an Epoxy based two component system with proper graded of filler material added in it having following properties.

(1) Good flexibility & impact resistance.

(2) Excellent adhesion to most substances.

(3) Good chemical & U/V resistance.

(4) Impermeble to water.

(5) High compressive & tensile strength.

(6) Minimum shrinkage on curing.

Field of Application

Conseal is recommended for waterproofing the Terraces, Toilets, Basements, Water Tanks and all types of water retaining structures. It is also used for Bonding New Concrete to old.

HOW IS IT USED ?

USED FOR WATER - PROOFING

Surface Preparations

The Surface must be free from oil & grease and also dry. It should be strong and sound also. It is etched with mild 15% Hydrochloric Acid to remove cement laitance and then washed with 5% washing soda solution. The terrace must have fairly smooth surface having proper slope. Fillets at all the corners must be provided. The walls of the basement must be plastered smooth from external side having cement finish. In the watertanks the construction joints if any may be chiselled out in 'V' shape. This is true for the cracks in the terrace also. These are filled up with Conseal mortar before applying Conseal on the surface.

Fresh concrete surface requires minimum 10 days to at least 30 days of time before going for the above treatment.

Application

Take equal weight of Conseal Resin & Hardener in a narrow Cylindrical plastic Container. Mix thoroughly both the material in such a way that the material at the bottom as well as on the side of the container gets mixed up in a homogeneous mass.

Apply the above prepared material with spatula or knife evenly on the surface. If 2nd coat is required to be applied, the first coat may be allowed to become tacky (which will take about 2 to 3 hours. depending upon the ambient temperature). The material may be consumed within 20 to 30 minutes. The final surface may be covered with dry coarse sand. The surface requires to be cured for 7 days. It could be reduced by using infrared at 70° to 80° C temperature or steaming or hot water.

One coat of Conseal is generally recommended on the surface, but where leakage problem is severe, two coats of Conseal may be applied.

Covering capacity

1 kg of Conseal will cover approximately 2 to 3 sq.mt. area.

USED FOR BONDING NEW TO OLD CONCRETE

Conseal is used for bonding New concrete to Old Concrete; external reinforcement to concrete, joining precast concrete elements etc.

How is it used ?

The surface preparation is made as mentioned above. Prepare primer by mixing equal weight of Conseal primer part 'A' & 'B' in a container and mix it thoroughly. Apply this with a brush on the surface as well as reinforcements if any and allow it to dry. (This may take about 30 minute) Apply with hand or a spatula or knife, Conseal compound prepared as mentioned above to a thickness of 5mm, on the above treated surface. Allow it to become tacky (i.e. when you get a thumb impression on the surface). This will take approximately $1\frac{1}{2}$ to 2 hours. Do not allow the surface to become dry. Pour the fresh concrete on this, keeping in mind to keep W/C ratio as low as practicable.

Covering Capacity

Conseal Primer :	1 kg. 4 to 5 sq.mt.
Conseal	1 kg. 2 to 3 sq.mt.

USED FOR GROUTING MACHINERY BASE

Cement mortar when it is used for grouting machine foundation cracks, due to vibration and also shrinks when it sets. Conseal has high Tensile, Compressive and Flectural strength and it with-stands all static and dynamic load. It gets early strength and is resistance to oil and other chemicals.

How used ?

Surface preparation may be made as stated above. Conseal mix is prepared as mentioned above and the prepared marerial is poured in the space kept in the foundation or in the machinery base.

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