SOLIDKOTE 110

Wet-to-Dry Epoxy Bonding Agent For Concrete Repairs

Solidkote 110 is a permanent wet-to-dry epoxy adhesive for bonding of internal or external renderings, structural repairs, granolithic toppings and concrete to concrete.

It tolerates moisture before and during curing and is insoluble when cured. The ultimate bond strength is greater than the tensile strength of concrete. Solidkote 110 does not shrink and provides an even and stress-free bond.

Solidkote 110 is primarily used as a wet-to-dry epoxy bonding system for structural repairs, cementitious floor repairs / over layments and where high strength bonding to the suitable substrate is required for grouting of vertical dowel bars into concrete.

Solidkote 110 may be applied to clean, sound and durable surfaces such as steel, glazed tiles and bricks, ceramics and quarry tiles, terrazzo tiles and concrete floors. It can also be applied to smooth and granolithic pavings, old and worn concrete, engineering and semi-engineering bricks (with the correct surface preparation).

UNIQUE PRODUCT BENEFITS

- High physical strength.
- Non shrink.
- Moisture tolerant (wet to dry).
- Fast reacting.
- Durable.
- Resistant to chemical attack.
- Supplied in pre-packed units.
- Excellent adhesion properties.

TECHNICAL DETAILS

Mixed Density @ 25°C	1.15 kg / m^2
Pot Life	1 hr @ 25°C
Tack Free Time	8 hrs @ 25°C
Full Cure	7 days
Coverage	3 to 5 m^2 / L (substrate dependent)
Mix Ratio	2 parts resin : 1 part hardener (2:1)

PACKAGING

Solidkote 110 is available in 1L and 5L kits containing the base resin and activator components.

WATCH POINTS

Do not keep the mixed epoxy in the container as it will rapidly start to cure. Mix smaller volumes at a time and use immediately.

STORAGE

Store under cover out of direct sunlight and protect form extremes of temperature. Preferably store in a cool dry place. In hot climates the product must be stored in an air conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product and packaging.

The product's shelf life is dependent on storage conditions and is usually up to 12 months in sealed and original packaging.

PREPARATION

All surfaces must be cleaned and dry. All loose particles, laitance, dust, curing compounds, oil, grease, fats, bitumen and paint is to be removed in order for good bond strength to be achieved. Gloss surfaces must be abraded.

New concrete should have been cured until the shrinkage and moisture movement is low. Surfaces heavily impregnated with mould oil should be degreased and grit blasted or mechanically scarified to remove the contaminated surface. Core samples should be taken if unsure of oil penetration. All curing compounds should have disintegrated or be removed and application only carried out on a clean, dust free surface.

INSTALLATION

Mixing

Carefully transfer the entire contents of the smaller component (activator) to the larger base component (resin) and thoroughly mix, using a mechanical drill on slow speed fitted with a suitable paddle until uniformity is achieved. Mixing time is usually 3 minutes to achieve a homogenous product. Do not attempt to split the kit up or to thin down with solvents.

Renderings and Screeds

Use whenever new concrete or plaster is to be placed over existing concrete or plaster surfaces to ensure a complete bond between the two materials. Solidkote 110 should be applied evenly across the whole surface with a clean short bristled brush, roller, trowel or squeegee for larger areas at a rate of 3 to 5 m^2 / L.

Apply wet on wet, i.e. the new concrete is cast onto the old concrete freshly coated with the Solidkote 110. Cast the concrete or rendering into the freshly applied adhesive and finish off as usual. Cure the new concrete application with ***Techfin Acrylic Cure*** this will help in avoiding any surface cracking caused by concrete shrinkage characteristics.

TEMPERATURE

Since low temperatures retard the setting of Solidkote 110, avoid working in cold weather if possible.

Although Solidkote 110 will cure slowly at low temperatures, a temperature of 7°C to 10°C can be considered to be the lowest at which work on vertical rendering may proceed satisfactorily without shuttering.

EQUIPMENT CARE

Clean all equipment with ***Solidkote 505*** epoxy thinners immediately after use. Hard set Solidkote 110 can only be removed mechanically or burning.

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.