

# DECKRETE EP 110

## High Built Anti Slip Solvent Free Epoxy Resin Car Park Flooring

Deckrete EP 110 provides a slip resistant, hardwearing, chemical and abrasion resistant floor finish. It also provides a high top coating to the Deckrete SL slip resistant range of products.

It is ideally suited to use in wet areas where a high degree of chemical resistance is required for car park decks.

### Advantages

- Slip resistant – Different textures available to suit conditions.
- Hard Wearing – Durable, low maintenance costs
- Chemical Resistant – Proven against a wide industrial chemicals.
- Seamless – Liquid applied giving complete protection.
- Attractive – Available in wide range of colors to improve the working environment and identify slip hazard areas.

### Description

Deckrete EP 110 is a solvent free system based on epoxy resins and curing agents specifically selected for their ability to withstand chemical attack. The system consists of pre-weighed base and hardener and quartz.

The slip resistant texture is provided by the use of TOPKRETE ANTI-SLAP GRAINS which is a clean, silt-free, dry, pre-bagged aggregate, that has been carefully graded to ensure an even surface texture. Various sizes are available to give various degrees of non-slip. See Estimating for the various floor thicknesses that can be achieved.

### Properties

The values given below for typical properties are average figures achieved in laboratory tests at 20°C and 35°C. As such, actual values obtained on site may show minor variations from those quoted.

### Physical Properties

| Topkrete EP 110                | 20°C     | 35°C     |
|--------------------------------|----------|----------|
| Pot Life                       | 40 mins  | 20 mins  |
| Cure Time                      | 24 hours | 18 hours |
| Maximum Time Between Coats     | 36 hours | 15 hours |
| Traffic Light Use After        | 24 hours | 18 hours |
| Full Traffic Use After         | 48 hours | 24 hours |
| Resistant to Chemical Spillage | 7 days   | 7 days   |

|                           |  |
|---------------------------|--|
| Compressive Strength*     | 50N/mm <sup>2</sup>                            |
| Flexural Strength*        | 40N/mm <sup>2</sup>                            |
| Tensile Strength*         | 15N/mm <sup>2</sup>                            |
| Bond Strength To Concrete | Greater than the cohesive Strength of Concrete |
| Abrasion Resistant        | 0.60gm   |
| ASTM D4060-95             | After 1000 cycle                               |

\* Obtained on resin system only

### Chemical Properties

Deckrete EP 110 is resistant to wide range of chemicals, specific data is available on request.

### Maintenance

The service life of a floor can be considerably extended by good housekeeping. Regular cleaning of Deckrete EP 110 may be carried out using a rotary rotary scrubbing machine with a water miscible cleaning agent or by hot water washing at temperatures up to 50°C.

### Specification Clause

Floor areas so designated should be surface with a non-slip coating of Deckrete EP 110 as manufactured by TOPKRETE and applied in accordance with manufacturers instructions.

## Application Instruction

### Surface Preparation

The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrate. It is important therefore, that substrates are correctly prepared prior to application.

### New Concrete Floors

Unless specially water-reduced, the new concrete floor should be at least 28 days old and give a hygrometer reading not exceeding 75% RH when tested in accordance with BS 8203 Appendix A. They should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues.

Laitance should be removed by light mechanical scabbling, grinding or grit blasting. Light laitance can be removed by acid etching with TOPKRETE ACID ETCH followed by thorough neutralization with clean water, vacuum cleaning and then allowing the surface to dry.

### Old Concrete Floors

Where deep seated contamination has occurred mechanical methods such as blasting. Grinding or scabbling should be used to provide a suitable clean surface.

Deckrete EP should be mixed in the proportions supplied. Add the entire contents of the hardeners to the base can. When thoroughly mixed, preferably using a slow speed drill and Jiffy mixer, the primer should be applied in a thin, continuous film using rollers or stiff brushes. Work the primer well into the surface of the concrete taking care to avoid puddling or over application.

## Mixing

In a separate vessel, use a slow speed drill and jiffy mixer to mix the base and hardener for at least 3 minutes, (for the topcoat also add the full Color Pot as supplied and mix until an even color is obtained). Mix these components in the quantities supplied taking care to ensure all containers are scraped clean. **DO NOT ADD SOLVENT THINGGERS AT ANY TIME.**

## Application Instruction

The first coat of Deckrete EP 110 should be laid using a medium 3/8" pile roller, or a squeegee to achieve a continuous coating of at least 0.06kg/m<sup>2</sup>. This can be increased where specifications demand. Ensure the loose pile on the roller are removed before use.

The base coat should now be dressed with the **TOPKRETE ANTI-SLIP GRAIN**. This should be done as soon as possible after laying. This recommended procedure is to completely blind the base coat. i.e. apply access dressing aggregate to completely obliterate the base coating.

## Priming

All dirt and debris shall be removed prior to primer application. Apply one coat of Deckrete EP 10 prepared concrete surface at the rate of 0.25kg/m<sup>2</sup>.

## Warranty

**Topkrete Sdn Bhd** warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to TOPKRETE SDN BHD shall be limited to replacement of the material proven to be defective, and TOPKRETE SDN BHD shall in no case be liable otherwise or for incidental or consequential damages. **TOPKRETE SDN BHD MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

## Important note

Topkrete products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Topkrete endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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