

PRODUCT DESCRIPTION:

DUR-A-HARD E30 is a two component penetrating epoxy floor hardener.

USES:

DUR-A-HARD E30 is used to consolidate and harden the surface of the concrete which dusts because of laitance or carbonation. When properly applied, it binds laitance to the parent concrete and significantly increases abrasion resistance. It can be used as a primer prior to applying a floor coating if other methods of surface preparation cannot be used.

CURING SCHEDULE:

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|----------------------------|-----------|
| Pot life 200g. @ 25°C | 6 hrs. |
| Tack-free time @ 10°C/25°C | 24/8 hrs. |
| Overcoating time @ 25°C | 6 hrs. |

Allow to cure for a minimum of 12 hrs. at 25°C before it is opened to traffic. Cure time is considerably longer at colder temperatures.

COVERAGE RATES:

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|-----------|---|
| 1st Coat: | 3.5 m ² /litre (145 ft ² /gal.) |
| 2nd Coat: | 5.0 m ² /litre (205 ft ² /gal.) |

ACTUAL COVERAGE WILL VARY DEPENDING ON THE POROSITY AND COMPOSITION OF THE SUBSTRATE(S). A TEST SAMPLE SHOULD BE APPLIED TO ESTABLISH PRACTICAL COVERAGE ON THE ACTUAL SUBSTRATE.

SURFACE PREPARATION:

DUR-A-HARD E30 is particularly used where normal concrete preparation is not done. It can be applied to swept or washed floors provided all contaminants such as grease, oil and wax are removed. In many instances the floors will be dusting because of placement techniques or due to carbonation. New concrete should cure for twenty-eight days.

DUR-A-HARD E30 should only be applied to a surface-dry, frost-free substrate. A dry substrate is essential for proper penetration and sealing.

TECHNICAL DATA

Physical Properties (unmixed) @ °C:

Component 'A' (resin)

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|--------------------------|-------|
| Specific gravity: | 0.974 |
| Viscosity (cps): | 20-30 |
| Colour: | Clear |

Component 'B' (hardener)

| | |
|--------------------------|-------|
| Specific gravity: | 0.907 |
| Viscosity (cps): | 10-20 |
| Colour: | Amber |

Physical Properties (mixed) @ °C:

| | |
|--------------------------|-------------|
| Specific gravity: | 0.931 |
| Viscosity (cps): | 15-25 |
| Solids by weight: | 30% |
| Colour: | Light amber |

Performance Characteristics:

Physical Testing (7 days cure @ 25°C):

| | |
|-----------------------------|---|
| Abrasion resistance: | Approximately seven times more than the control concrete. |
| Chemical resistance: | Resistant to petroleum products and to a broad range of chemicals. It is not resistant to strong acids, either organic or chemical. Recommendations for specific applications may be obtained from Durabond Products Limited. |
| Bond (tensile test): | Consolidated laitance/concrete-failure in concrete. |

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PROTECTIVE COATINGS
EPOXY FLOOR TREATMENT

MIXING & APPLICATION:

DUR-A-HARD E30 is supplied as a two package system. Open component 'B' and agitate resin until evenly blended. Mix equal volumes of 'A' with 'B' or mix total quantity in separate mixing pail. Agitate with low speed power mixer (200-300 rpm) until one even colour develops.

DUR-A-HARD E30 may be applied with roller, brush or sprayer. All concrete surfaces must be fully dry before application. First coat should be applied at the rate determined during testing. If this material is absorbed, more must be applied within 30 minutes until the surface will not absorb any more. In this manner, the material penetrates to the parent concrete and consolidates the laitance. The second coat should be applied after an overnight cure.

CLEAN UP:

All equipment must be cleaned immediately after use. Use **Durex 'Cleaning Solvent' 101**.

CAUTION: This solvent is flammable so there must be no open lights, flames, sparking motors or pilot lights in the vicinity. Smoking near the solvent is to be forbidden.

SAFETY AND TOXICITY:

DUR-A-HARD E30 contains flammable solvents. Extra precautions should be taken in confined areas. Never allow open flame or sparks in area where the product is being used. Adequate ventilation must be provided during application. Two-component epoxy systems are capable of producing severe injury to, or destruction of, skin and eye tissues. They are classified as corrosive for shipping purposes. Precautions must be taken to prevent prolonged or repeated skin contact and

it is essential to protect eyes from splashes. Protective clothing, rubber gloves and chemical goggles should be worn when working with these products.

Some people become sensitized when working with epoxy resin systems. The sensitization may appear in the form of skin or respiratory reactions. Avoid breathing vapours, particularly if these products are used in a confined area. Face mask with #1224 is usually adequate.

STORAGE:

Store in heated area and on pallets. Do not allow product to freeze. Ventilate storage area to prevent build up of vapour. Shelf life in unopened containers is two years.

PACKAGING:

Packaged in 45 litre units. Each container is clearly marked with product name, component designation ('A' or 'B'), manufacturers name, batch number and ratio of component mixtures. Both containers 'A' and 'B' are colour coded the same.

WARRANTY:

Durabond Products Limited fully warrants their products when used and applied in strict accordance with the printed instruction on product mixing and product application. In any case **Durabond's** responsibility shall not exceed the refund purchase price, or the replacement of the purchased product.

TECHNICAL SERVICES:

Technical assistance for unique application and design is available upon request from **Durabond Products Limited**.

DURabond

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