

PRODUCT DESCRIPTION:

DUREX DUR-A-HARD HPC is a 100% solids epoxy with excellent all around application properties. It provides high and early abrasion resistance and good chemical resistance. With no solvent present in the formula it is V.O.C. compliant with extremely low odour level during installation.

USES:

DUREX DUR-A-HARD HPC, applied in two coats at 16 mils total build, provides outstanding durability, easy maintenance and 3-5 times the life expectancy of conventional coatings. It is an excellent wall or floor coating providing excellent value.

CURING SCHEDULE:

Pot life 200 g @ 25°C	18 mins.
Initial set for light traffic @ 10°C/25°C	20/8 hrs.
Through cure for heavy traffic @ 10°C/25°C	48/24 hrs.
Minimum overcoating time 10°C/25°C	16/6 hrs.

Maximum overcoating time 10°C/25°C 96/48 hrs.

Should the maximum time be exceeded, then the cured surface of the **DUREX DUR-A-HARD HPC** should be sanded to a matt profile before a further coat is applied. Failure to follow this procedure may result in loss of adhesion between the layers.

COVERAGE RATES:

Primer:	8 mils	5m ² /litre (205 ft ² /gal.) on normal surfaces
Topcoat:	8 mils	5m ² /litre (205 ft ² /gal.) on normal surfaces

The average total target film build is 16 mils (0.016" or 0.4 mm)

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:

Concrete must be cleaned free of old existing

TECHNICAL DATA

Physical Properties (unmixed) @ 25°C:

Component 'A' (resin)	
Specific gravity:	1.40
Viscosity (cps):	2,200
Colour:	Coloured

Component 'B' (hardener)	
Specific gravity:	1.05
Viscosity (cps):	500
Colour:	Clear amber

Physical Properties (mixed) @ 25°C:

Specific gravity:	1.35
Viscosity (cps):	1,500-1,800
Colour:	Coloured

Performance Characteristics:

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

TEST	STANDARD	RESULTS
Compressive strength:	ASTM C579	103 MPa (15,000 psi)
Tensile strength	ASTM D638	44 MPa (6,400 psi)
Flexural strength	ASTM D790	83 MPa (12,000 psi)
Hardness Shore D	ASTM D2240	82
Modulus of elasticity	ASTM D790	5.0 X 10 ⁵ psi
Water absorption	ASTM D570	0.10%

coatings. New concrete should cure a minimum of 28 days. Dry surfaces allow easier application of this product, however, product will adhere to clean, damp surfaces. Remove all debris from working surfaces. Remove all oils, greases, dirt and wax solutions from surface. Use suitable means to remove contaminants, heavy laitance, or curing compounds, which will interfere with proper adhesion.

Special consideration must be given to oil or other foreign materials which may have penetrated into the concrete. Pull tests must always be used to verify adequacy of preparation. Repair all cracks with appropriate **Durabond** resin.

MIXING & APPLICATION:

The 3.75 litre unit of **DUREX DUR-A-HARD HPC** is supplied in two components 'A' and 'B'. First ensure each component is fully mixed to an even consistency. Mix all contents of component 'B' into component 'A' until one even colour develops. Mixing should be done with a low speed mixer (200-300 rpm). Apply by brush, roller or spray.

To achieve a 'Non-Slip Surface' mix apply **DUREX DUR-A-HARD HPC** at a coverage rate of 2.5 m²/litre. While this is wet broadcast to saturation Barnes #51 or #71 sand (2.0 kg/m²). Back roll the surface to improve the aggregate distribution and provide a consistent appearance. Allow this first layer to set and sweep away excess sand. Apply the second coat of **DUREX DUR-A-HARD HPC** at 4.0 m²/litre.

DUREX DUR-A-HARD HPC will cure down to 0°C (32°F), however application properties are significantly better above 10°C (50°F) and are excellent at 20°C (68°F).

DUREX DUR-A-HARD HPC performs best on a clean dry substrate, however it will adhere to a damp surface, but not on a wet surface.

CLEAN UP:

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

SAFETY AND TOXICITY:

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. Air supplied mask is suitable for use in confined areas.

STORAGE:

Store in heated area and on pallets. Do not allow product to freeze. Shelf life in unopened containers is two years.

PACKAGING:

Packaged in 3.75 litre units, 4 units per carton. Each container is clearly marked with product name, component designation ('A' or 'B'), manufacturers name, batch number and ratio of component mixtures. Both containers of '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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