

# DUROFLEX BASEMENT

## POLYMER CEMENTITIOUS SLURRY



### DESCRIPTION

Duroflex basement is a 1 component polymer enhanced, rigid setting cementitious slurry coat designed for a range of positive and negative waterproofing applications over concrete and masonry surfaces. Suitable for underground structures including retaining walls, basements walls, lift shafts, car parks, building foundations and footings to prevent water migration through both positive and negative faces of structures.

Once cured Duroflex basement can be finished over with paint, render and other decorative finishes

### FEATURES

- Non toxic Excellent adhesion properties
- Fast drying
- Dries without cracking, low shrinkage
- 1 component, mixed on site with water, ready to use
- Able to withstand positive and negative water pressure (up to 5m head of pressure on negative side)
- Protects against chlorides, sulphates, sea water, subterranean water, freeze thaw and varying pH water
- Suitable on damp concrete or green freshly laid concrete
- Can be finished over with paints, renders and other decorative finishes

### TYPICAL APPLICATIONS

- Retaining walls
- Basements, cellars, subterranean walls
- Lift shafts
- Car parks

### GENERAL APPLICATION DETAILS

- Surfaces must be free of oil, paints, grease, laitance and foreign residues ensuring the area is clean and free of contaminants.
- Repair surface cracks, voids or unstable areas with a repair mortar.
- All active leaks must be first repaired using Durotech Duroflex Water Plug. Surfaces should be damp or pre dampened prior to application

### GENERAL TECHNICAL DATA

#### Wet Form

<b>Specific gravity of mixed product</b>	1.5kg/litre
<b>Appearance</b>	When mixed – grey viscous slurry When dried – grey film

#### Cured membrane

<b>Elongation</b>	20%
<b>Tensile Strength</b>	>1.1MPa
<b>Adhesion to concrete</b>	>1.1MPa
<b>Water pressure resistance</b>	0.45g/24h/m <sup>2</sup>
<b>Shore A hardness</b>	68

### PACKAGING

- 20kg bag



## GENERAL APPLICATION DETAILS

- Slurry is formed by mixing approximately 1litre of water per 4.5kg of powder
- Into a clean mixing container, add 2/3 of the required water. Slowly add powder and mix using an electric stirrer with paddle attachment, ensuring the mixing of components is continuous while the powder is added. Continue mixing to form a lump free consistency. Then slowly add the 1/3 balance of water to the mixture until it is evenly dispersed and a homogenous consistency is formed.
- Mix for approx. 2-3 minutes and allow to settle for 5 minutes before a light re-stir and ready to use. Pot life is approx. 40 minutes. If using in hot conditions, chilled water should be used for mixing. Once product has dried or settled, do not re-mix. Remove the residue and commence a fresh batch.
- Wear rubber gloves, protective eye wear and cover face when mixing and applying product
- Do not mix with any other materials.
- Do not apply if early rain is imminent after the application to prevent wash out.

## WATER PRESSURE

- 0.5 Bar negative pressure
- 6 bar positive pressure

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## APPLICATION, COVERAGE AND CURING

- Ensure all surfaces are pre-dampened prior to applying the slurry. This can be done by water mist or watering area down. Surfaces should be damp but free of surface water.
- Using a stiff bristle brush, apply the product in a liberal coat ensuring all surface pores are covered.
- Optimum results are achieved in 2 coats with the first coat 2 being applied at approx. 1.5kg/m followed by a second 2 coat at a coverage of 1kg/m. Total coverage should be 2 approx. 2.5kg/m with a dried film thickness of around 2-2.5mm
- Recoat time is 2 hours
- Allow minimum 4 days curing before backfilling or applying finishes



## IMPORTANT NOTES

- Ensure surface is prepared correctly with surface pre-dampened prior to applying product
- Surface temperature is to be between 5°C & 30°C

## DUROTECH INDUSTRIES

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