

# DUROLASTIC

## A fortifying Screed, Render & Adhesive Admixture.

*Durolastic* is an admixture, especially formulated for the Australian market, used in place of water to fortify leveling screeds, renders and factory prepared cement based adhesives.

### PRINCIPAL CHARACTERISTICS

- Improves workability
- Reduces shrinkage
- Increases flexural and compressive strengths
- Improves shock, frost and chemical resistance
- Improves adhesion
- Non-toxic

### USES

- Patching compounds, render and mortar beds
- Leveling screeds
- Fortifying cement based adhesives
- Adhesive promoter for difficult to bond substrates
- Use in areas covered by **AS3958.1-2007**
- Concrete, cement render, rendered brick and blockwork
- Swimming pools (added to CTA)

### SURFACE PREPARATION

All surfaces shall be sound, clean, dry and free of release curing agents and other contaminants likely to affect adhesion.

### APPLICATION-Slurry Coat

Before placing mortar bed, apply to the substrate a slurry coat primer made from 2 parts **Durolastic** mixed with 3 parts cement.

### APPLICATION- Mortar Bed (Screed).

Dilute **Durolastic** with water at a ratio of 1 part **Durolastic** to 3 parts water and add to a 3:1 sand/cement mix. Adjust mixture to produce a semi-dry mortar. While slurry is still wet, spread mortar and compact well. Tiling can either be carried out after 24hrs using **Durohesive Premium** or after the screed is dry, (approx 7 days), using **Durohesive™ CTA or Gold**.

### APPLICATION with DUROHESIVE™ CTA

**Durolastic** is used instead of water to fortify **Durohesive™ CTA** when bonding tiles that have low porosity and for swimming pools and ponds. Approximately 5 litres of **Durolastic** liquid is required for 20kg of **Durohesive™ CTA**. This improves adhesion, increases flexibility and the ability to accommodate deformation.

### CLEAN UP

**Durolastic** can be removed from the surface of the tiles using a damp cloth while the adhesive is still wet. Tools and equipment can be cleaned with warm water and detergent prior to the adhesive drying.

### MIXING

**For Screeds:** 4-5 litres of diluted **Durolastic** (1part to 3 parts water) mixes with 10kg cement and 30kg washed dry sand. 40kg of this mix covers 1m<sup>2</sup> at 25mm thick.

**For renders:** 6 to 7 litres of diluted **Durolastic** (1-3 in water) with 10kg of cement and 30kg of washed dry sand.

**Additive Use:** 5 litres **Durolastic** liquid mixes with 20kg **Durohesive™ CTA**.

**SHELF LIFE:** 12 months in unopened containers stored at 20°C

**MECHANICAL PROPERTIES - after 21 days of curing****Classification: (as per AS4992.2) C2ETS1****Screeds:**

**Compressive strength:** 15 N/mm<sup>2</sup>  
**Flexural strength:** 5.5 N/mm<sup>2</sup>  
**Pot life:** 1 hour at 22°C and 50% RH

 **Renders:**

**Compressive strength:** 10 N/mm<sup>2</sup>  
**Flexural strength:** 5 N/mm<sup>2</sup>  
**Pot life:** 1 hour at 22°C and 50%RH

**Durohesive™ CTA mixed with Durolastic:**

**Tensile strength:** 1.1 N/mm<sup>2</sup>  
**After immersion:** 1.34 N/mm<sup>2</sup>  
**Heat ageing:** 1.30 N/mm<sup>2</sup>  
**Freeze thaw:** 1.1 N/mm<sup>2</sup>  
**Slip:** 0.3 mm  
**Transverse deformation:** 4.5 mm

**PHYSICAL PROPERTIES**

**Appearance:** White thin liquid  
**Non volatile mass:** 30%  
**pH:** 8.3  
**Specific gravity:** 1.02 g/cm

**PACKAGING**

- 20 Litres
- 5 Litres

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*The information provided in this technical bulletin is as correct in detail as possible and is intended to give a fair description of the product and its capabilities. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. The product is guaranteed providing that it is applied in accordance with the manufacturer's instructions as stated in this data sheet and any relevant Standard or Code and provided that the building and installation is structurally sound. Durotech terms and conditions of sale apply.*