

# DuraSil D






Waterborne Densifier for Concrete.

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### DESCRIPTION

**DuraSil D** is a single component, water based surface hardener based on sodium silicates. These silicates react with the calcium hydroxide within the concrete matrix to harden the concrete surface making the concrete surface dust free and easier to clean

### FEATURES AND BENEFITS

-  Excellent penetration
-  Environmentally friendly
-  Allows trapped moisture to escape
-  Suitable for external use
-  Australian Made

### RECOMMENDED SUBSTRATES

-  In-situ concrete and masonry.

### PACKAGING

**DuraSil D** is available in 20 Litre pails, 200 Litre Mauser Drums.

### COVERAGE RATES

Depending on the porosity of the substrate, 3-4 square meters per litre per coat for damaged or dusting floors; for lightly broomed or burnished concrete, 6-8 square metres per litre. Two coats are recommended for a minimum effective treatment.

### TYPICAL PROPERTIES

Property	Result
Appearance	Clear to hazy liquid
Finish	Invisible penetrating sealer
Specific Gravity	Approx 1.2 kg/l
Viscosity	Approx 300 cps
Potlife	Indefinite
Recoat Time	24 hours at 25°C
Full Cure	7 days at 25°C
Weight Solids	18 +/- 1%
VOC (APAS D181)	<5 g/ltr



### APPLICATION DIRECTIONS

#### Surface Preparation.

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algae growth, laitance and all traces of mould release oils and curing compounds. This is best achieved by lightly grit blasting the surface. Where moss, algae or similar growths have occurred, treatment with a propriety biocide should be carried out after the grit-blasting process surface has been obtained.

Cleaning by water method is also effective, surface cleaned should be allowed to stand for min 24hrs prior to application of **DuraSil D**.

**DO NOT** clean the surface to be treated with Hydrochloric Acid.

Ensure recoat times are adhered to between applications.

#### Mixing.

Use straight from the container, no mixing required. **DO NOT DILUTE.**

#### Placing.

Always test **DuraSil D** on the substrate and allow to cure to ensure that the desired result is achieved.

Apply **DuraSil D** undiluted to the substrate by low pressure sprayer, watering can, brush or similar ensuring the entire surface is wet out. Keep the surface wetted for a minimum of 30 minutes ensure no product come into contact with surrounding areas. After a minimum of 30 minutes, remove excess material.

On dusting or damaged slabs 2-3 coats maybe required. Further applications can be applied after allowing 24 hours between coats.

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Where **DuraSil D** has been applied to freshly poured concrete, a second coat may be required after allowing the first to cure for 30 days.

## PRECAUTIONS

Do not apply **DuraSil D** to wet surfaces.

Some individuals may experience a skin reaction to **DuraSil D**. Those individuals should wear personal protection equipment. Refer to our Material Safety Data Sheet for more information.

**DuraSil D** should never be diluted.

**DuraSil D** may darken concrete surfaces. A trial area should be applied before full scale application.

Apply **DuraSil D** between 10-35°C.

Do not apply **DuraSil D** over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

## STORAGE

**DuraSil D** should be stored between 10°C and 30°C. Shelf life is 1 year in original unopened container.

Partly used containers must be sealed tight when not in use.

## FIRE

**DuraSil D** is non-flammable.

## DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Illawarra Coatings' products, are given in good faith based on Illawarra Coatings' current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.