

# DURAFLO C24

## HIGH STRENGTH SELF-SMOOTHENING TOPPING

### DESCRIPTION

**DURAFLO C24** has been specially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as cement and sand screed, concrete etc. **DURAFLO C24** contains high quality synthetic resins, special cements and selected fillers so that when mixed with water, an easily-troweled mortar with free-flowing properties is produced. The mixed mortar can be applied at 5 mm thickness up to a maximum thickness of 10 mm when it is aggregated with clean graded sand.

### USES

**DURAFLO C24** should be used to level and smooth uneven internal subfloors such as concrete, cement/sand screed, quarry tiles, etc. prior to the installation of resilient flooring.

A maximum thickness of 10 mm can be installed in a single application.

### ADVANTAGES

- ✓ Protein free
- ✓ Pumpable
- ✓ High wearing cementitious topping material for residential, commercial and industrial floors.
- ✓ Early trafficable

### TECHNICAL DATA

⇒ Appearance		Grey Powder
⇒ Bulk Density		Approx. 1.30 kg/L
⇒ Fresh Mortar		Approx. 2.10 kg/L
⇒ Flowing Time		20 mins
⇒ Initial Set (ASTM C191 @ 25°C)		40 – 60 mins
⇒ Final Set (ASTM C191 @ 25°C)		50 – 70 mins
⇒ Flow		> 140 mm
⇒ Consumption		1.5 kg/m <sup>2</sup>
⇒ <b>Compressive Strength (ASTM C109)</b>	After 1 Day After 7 Days After 28 Days	> 10 N/mm <sup>2</sup> > 30 N/mm <sup>2</sup> > 40 N/mm <sup>2</sup>
⇒ <b>Flexural Strength (ASTM C348)</b>	After 1 Day After 7 Days After 28 Days	> 3 N/mm <sup>2</sup> > 6.0 N/mm <sup>2</sup> > 8.5 N/mm <sup>2</sup>
⇒ <b>Shrinkage (ASTM C531)</b>	After 7 Days After 28 Days	< 0.03 % < 0.1 %
⇒ <b>Total Abrasion (ASTM D4060) 100 cycles, H22 wheel, 1000g load</b>	After 28 Days	< 0.5g loss

#### TYPE



INDUSTRIAL  
FLOORING

#### ADVANTAGES



SELF  
LEVELLING



QUICK  
SET

#### COVERAGE (PER COAT)

1.5 kg/m<sup>2</sup>

#### COATINGS

1 coat (min)

#### COMPONENT

1

PART

# DURAFLO C24

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### SURFACE PREPARATION

The surface must be dry, hard, sound, clean and free from oil, grease, wax, latex compounds and any substance that might act as bond breaker. Use commercial degreaser to remove polish, wax, grease, oil and similar contaminating substances.

Wetted, frozen or otherwise weak concrete surface must be mechanically cleaned to support applied smoothing compound by shot blasting, scarifying and grinding. All cracks in the sub-floor must be repaired to prevent damaging through the over-layment. For deeper pour and larger void, mix **DURAFLO C24** with well-washed and dried aggregate of 0.5 mm to 1.2 mm to obtain desired height.

*NOTE: Floor has to be dry with moisture content of less than 5%. If the floor is damp through construction moisture or rising damp, use **DURAFLO MB21**.*

### MIXING

Pour 1 bag (25 kg) of **DURAFLO C24** into about 5.5L of clean water and mixed with an electric drill (min. 600 rpm). Mix steadily and thoroughly until it becomes homogeneous and a lump-free fluid mortar is produced. Continue mixing for another minute until an even consistency is achieved. Do not overdose with water.

### COVERAGE

Approximately 1.5 kg of **DURAFLO C24** for powder/m<sup>2</sup>/mm. The coverage depends on the flatness of the substrate.

### APPLICATION

Pour **DURAFLO C24** onto the dry sub-floor. Use a trowel or spreader to spread the mortar completely. The mixed mortar will be self-smooth within the first 20 to 30 minutes. A 3 mm layer of **DURAFLO C24** will be walkable after approximately 48 hours at 30°C, 50% R.H. The time is also reduced where temperature and application thickness are applied to absorbent sub-floors. Apply at temperatures above 10°C.

For areas that require over 10 mm thickness, **DURAFLO C24** must be mixed with the following:

DURAFLO C24	Sand	Water
1 Part	1 Part of 2 – 5 mm (by weight)	10 – 12 %

Mix **DURAFLO C24** with 10 – 12% of water first, followed by adding the sand at a (mixing ratio of 1 part of 2 – 5 mm sand by weight) to get the semi-flow mortar. The surface should be covered to provide temporary protection against surface damage and contamination.

### PACKAGING

**DURAFLO C24** is packed in a multilayer paper sack incorporating a polyethylene liner of 25 kg net weight.

### STORAGE

**DURAFLO C24** should be stored under the same conditions as cement, in a cool, dry place away from sunlight. If stored under optimum conditions, it has a shelf-life of up to 6 months.

### PRECAUTIONS

Not suitable for asphalt and timber sub-floors that are subjected to vibration or heavy loads. It is used for internal use only and not suitable for feather edge and thickness under 5 mm thick.

Legal Notes:  
'Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part. 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. The user of this product must test the product's suitability for the intended application and purpose. CHEMIND reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users may always refer to the most recent issue of our Product Data Sheet for the products concerned, copies of which will be supplied upon request.'

Made In Malaysia



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### SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance SIRIM testing. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard.

