

# CEM-METALTOP 360 COLOURS

## Very Heavy Duty Floor System for use in Industry and Agriculture

### Description

CEM-METALTOP 360 COLOURS is a pumpable heavy duty, coloured screed designed for use in heavy industry and agricultural buildings. It has good resistance against chemical attack and can be used externally.

### Technical Data

Flexural Strength:	>10 N/mm <sup>2</sup> after 28 days
Compressive Strength:	> 40N/mm <sup>2</sup> after 28 days. Ultimate strength >50 N/mm <sup>2</sup>
Adhesion to Subfloor:	>3 N/mm <sup>2</sup>
VOC-Value:	Free from Ammonia and Formaldehyde
Particle Size:	Max. 2 mm
Free Shrinkage:	< 0.07 % measured at 55 % RH
pH Value:	Approximately 11.5
Flowability:	135 - 140mm
Water Stability:	Water stable, (expansion under water < free shrinkage)
Water Admixture:	3.75 - 4.25 Litres
Min. Application Temp:	+5 °C
Dry powder density:	approx. 1.7g/cm <sup>3</sup>
Wet Density:	> 2.0 - 2.1 g/cm <sup>3</sup>
Open Time:	10 - 15 minutes depending on temperature
Curing:	1 - 3 hours for foot traffic 24 hours for light traffic 3 - 7 days for full loading
Storage:	6 months in dry conditions.

### Surface Preparation

Concrete and sand/cement screeds must be sound, dry and fully cured (not subject to shrinkage) and any laitance or service treatments must be removed by mechanical means such as grit blasting. The surface tensile strength of the substrate should be a minimum of 1.5 N/mm<sup>2</sup>. If an impervious coating, screed or floor covering is to be used the concrete substrate should be below 75% RH alternatively CEMART DPM should be applied. The temperature of the floor must be maintained above 10°C throughout the application and drying of the CEM-METALTOP 360 COLOURS.

### Priming

Application on to sand/cement screeds, concrete, CEMBASE and other porous substrates: first seal the prepared surface by applying one coat of CEMPRIME diluted with 5 parts potable water and allow to dry. Prime the sealed surface by applying a further coat of CEMPRIME diluted with 3 parts potable water and brush well into the surface. The primer must be allowed to dry for the application of CEM-METALTOP 360 COLOURS.

Application on to all other surfaces included Surface Damp Proof Membranes (SDPM) and non-absorbent surfaces: Prime with neat NEOPRENE PRIMER to ensure that good adhesion is obtained.

### Mixing

**HAND APPLICATION:** Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 25 kg of powder to 3.75 - 4.25 litres of potable water. Pour the water in to a suitable size bucket and gradually add the powder while stirring, until a smooth, lump free consistency is achieved.

**PUMP APPLICATION:** Mix the powder and water according to the method recommended by the pump manufacturers. In the case of pumps having a continuous water feed adjust the rate of water flow until the mix is a fluid, uniform grey liquid with no surface separation, producing a flow of approximately 135 - 140 mm using a 50cc flow ring.

### Application

Pour or pump the mixed material on to the prepared surface and allow to obtain a smooth finish. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines. Apply at thickness of between 5 mm to 30 mm in one pass only.

### **Coverage**

A 25 kg bag will yield approx 14.3 litres. A 25 kg bag of CEM-METALTOP 360 COLOURS will cover approx 2.85 m<sup>2</sup> @ 5 mm thickness.

### **Precautions**

Do not place when the substrate temperature is below 10°C or when the ambient temperature is 10°C and falling. Protect from frost. Do not exceed the maximum recommended water content and only use potable cold water.

### **Health and Safety**

Avoid contact of the material with skin and eyes. Wear appropriate gloves, overalls and eye protection during use. Please refer to material Safety Data Sheet for additional information. For specific advice regarding any aspect of this product, please consult our Technical Section.

### **Cleaning**

All equipment should be cleaned with water immediately after use.

### **Pack Size**

CEM-METALTOP 360 COLOURS is supplied in 25 kg bags.

### **Shelf Life**

6 months in unopened bags and stored under good conditions.

### **General Guidance**

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department. Please consult our Sales Department to confirm that this Data Sheet is the current issue