

## PREMIXED FLOOR HARDENER

### DESCRIPTION

**Contop Metallic** is a non oxidising floor hardener containing aggregates graded to produce tight interlocking particles.

### USES & ADVANTAGES

Use to produce hard tough wearing long-lasting surfaces. Metallic hardened floors are ductile under impact & will outwear standard toppings or chemical surface treatments by up to 8 times.

#### Advantages include:-

- Abrasion and high impact resistance.
- Long wearing low absorption floor is created.
- Easy to clean with minimal maintenance required.
- Non oxidising.
- Decreased dust.
- Reduced maintenance cost.

### PROPERTIES

**Appearance:** Dry mix. Various colours

**Bulk Density:** 2.6 kg/litre

**Moh Hardness:** Aggregate 8-9

**Compressive Strength :** > 100 N/m<sup>2</sup>

ASTM C109

**Composition:** Suitable for use with all Portland cement including S.R.C.

**Impact Resistance:** > 200% of plain concrete

**Abrasion Resistance:** Concrete improved by at least 225%. Tested to ASTM D4060 Taber Abrader & BS6431 Part 20.

### APPLICATION

Concrete should have as low a water cement ratio as possible consistent with placeability.

Slump should be between 75-100 mm. The use of **Conmix R1** retarder/plasticiser will assist in producing a low water cement ratio whilst maintaining workability.

Apply the **Contop Metallic** in 2 separate shakes.

#### Shake One:

- Use half of total material required per m<sup>2</sup>.
- Apply to concrete as soon as bleed water has disappeared and the concrete stiffened to the point light foot traffic leaves minor prints.
- Sift from hands or shovel. Do not spread material as it will segregate.
- Allow first shake to become saturated with moisture from slab. Do not add water. Float the shake by hand or mechanical means. If necessary use a long handled bull-float.

#### Shake Two:

- Apply second half of material as soon as first half floated. Float as first half.
- After sheen disappears, begin steel trowelling by mechanical or hand trowel.
- Once no additional water re-appears the floor is ready for final steel trowel. Use steel trowelling machines with blades raised at edge to produce a smooth dense finish.

### TIMING OF APPLICATION

**Contop Metallic** if applied too early will absorb too much water and the surface will potentially dust. The dense aggregate may also sink from the surface. Too late and the material may not hydrate sufficiently and or delaminate.

### CURING

Cure with **Corcure 90**.

### IMPORTANT NOTES

- Do not use in areas exposed to acids and their salts.
- Avoid areas where materials may come into contact with the product that attack Portland cement.
- Do not apply to concrete containing more than 3% air or containing calcium chloride.
- For coloured surfaces undertake site trials to determine any local colour variations and acceptability. All coloured floor hardeners to some extent will show some colour variation.

### COVERAGE RATES

Type of Floor	Light to moderate	Moderate	Heavy duty	Very heavy Concentrated
Contop Metallic (Kg/m <sup>2</sup> )	3.0 - 5.0	5.0 - 7.5	7.5 - 9.0	9.0 - 11.0

### PACKAGING

25 kg. 4 Ply plastic lined bags.

### STORAGE & SHELF LIFE

Store in dry conditions in unopened bags. Shelf life 6 months minimum if stored correctly.

### HEALTH & SAFETY

**Contop Metallic** is alkaline due to containing cement. Avoid inhalation, contact with skin and eyes, wear suitable gloves & eye protection. If in contact with skin wash off with water, if in contact with the eyes rinse with plenty of clean water & seek medical assistance. **Contop Metallic** is non-flammable.

### TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

### CONTACT DETAILS

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