

# DECORATIVE CONCRETE

## SELF LEVELING OVERLAY

### DESCRIPTION

Self leveling overlay is composed of a special polymer mixed with cement powder and pigmented with color Stainer's. to create smooth, even surface over existing concrete or other substrates. which is then finished with polishing. Forms a sturdy continuous covering without joints with a maximum thickness of 3 mm.

Self leveling overlay can be modified with stone chips for terrazzo finish with polishing and buffing process.

### SURFACE PREPARATION

1. Substrate should remain stable and be provided with any expansion, contraction and crack inducement joints necessary as any cracking, unevenness and faults in the substrate may be reflected through surface treatment.
2. Ensure surface is level, sound and free from any dust, laitance, dirt, oils and or loose materials
3. The existing joints must be mirrored through to the new surface. Badly damaged substrates/concrete or cracks need to be repaired prior to self leveling overlay being applied. Repair mortars and epoxies are used for such repairs.
4. Priming the substrate is often necessary to ensure proper adhesion of the self leveling overlay.
5. Moisture can affect the performance of the overlay, so proper moisture testing and mitigation may be necessary.

### TEMPERATURE/CURE

1. Air and substrate surface temperatures shall remain between 50°F (10°C) and 90°F (32°C) during and within 48 hours of placement.
2. Avoid high heat and / or windy conditions. Attempt to minimize application during such harsh conditions by working during cooler hours. Keep materials shaded prior to mixing.



## PACKAGING

(25 kg) bag

## MIXING RATIO

(4— 5 liter) water to (25 kg) bag of self leveling overlay.

## COVERAGE

Depends upon application and substrate.

## COMPRESSIVE STRENGTH

seven days strength = 15 MPA

twenty eight days strength = 25 MPA

## BOND STRENGTH

good bond strength with (i.e. ceramic, plasterboard, plaster, cementitious screeds, wood, concrete).

## WATERPROOFING QUALITY

good water proofing quality

## SHELF LIFE

Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened bag is (6) months from the date of purchase. Storage must be under roof and off the floor. Rotate inventory to maintain product that is within limits.

## SUITABILITY SAMPLE

Due to condition specific sites, always prepare an adequate number of test areas.

## CLEAN-UP

Before Material dries; spills and tools can be cleaned up with water.

## LIMITATIONS

For use by trained professionals.

## WARRANTY

Warranty 7 years from the date of project execution subject to certain clause: A) Material to be applied as per company guidelines. B) Usage of any other substrate/ material that doesn't complement with company material resulting in reaction, the warranty stands void. C) If there's any fault including leakage in the base where material is applied, the warranty stands void.

## APPLICATION

**Surface Preparation :** Applying bonding primer before material application.

**Step 1:** Preparation: Agitate / mix the liquid polymer 3 minutes before use. Pour half the contents of the polymer into another clean bucket. Once mixed, slowly add the SELF LEVELING material and mix thoroughly to ensure there are no lumps or dry spots.

**Step 2:** Application of self leveling overlay material : after mixing pour the material on substrate is guage rake or notch trowel for leveling. use spike roller for finishing.

**Step 3:** Curing : moist cure the surface after next day for 3 to 4 days for polishing strength development.

Step 4: Apply densifier with spray and mob. leave for min 4 to 8 hours.

**Step 4:** polishing process : use diamond polishing pad for polishing from 60, 100, 200, 400, 800, 1500, 3000 numbers.

**Step 5:** Buffing process : Apply 1<sup>st</sup> coat acrylic sealer with given ration. leave for 8 to 12 hours. apply 2 nd coat of acrylic sealer leave for 8 to 12 hours. start buffing with buffing pads for smooth

## Safety

D) Mixture of any other material apart from company **KEEP OUT OF REACH OF CHILDREN.**

**Inhalation:** Avoid prolonged breathing of airborne dust, particularly present during mixing. Use approved respirator for nuisance if threshold limit values are unsafe. Skin Contact:

Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with