

Non Metallic Floor Surface Hardener

DESCRIPTION AND USES

- **APCOFLOR MAX TOP** is a ready-to-use mixture of cement, extender, additives and hard aggregate of mineral origin. Composition is designed considering specific pack density, shape, grading, high quality hardness attributor that ensure attribute mechanical performance in terms of excellent abrasion resistance and smooth finish. This enhances the service life of the concrete substrate at affordable cost.
- **APCOFLOR MAX TOP** need to be sprinkled into the fresh concrete surface.
- Can be coated with different types of epoxy or polyurethane floor systems available in a range of colors to improve working environment.

PRODUCT PROPERTIES

Composition	Blend of high grade mineral aggregates mixed with cement, admixtures and extenders
VOC	0 gm/lt
Density	2 Kg/L
Compressive Strength	50 MPa
Shore Hardness D	≥ 70
- High abrasion resistant, smooth uniform finish to concrete substrate. - Significantly contribute hardness to the concrete. - Reduces surface dust. - High Impact resistance. - Easy in application. - It reduces time and labor cost by nullifying the usage of monolithic screed.	

INSTRUCTIONS FOR USE

1. Surface preparation:

- The concrete deliveries must be of consistent quality.
- A concrete slump in the range 75 to 110 mm will normally give best results.
- The slab must be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab.
- The compressive strength must be a minimum of 25 N/mm².
- The concrete should contain an adequate proportion of cement (300 - 350 kg/m²) and the slab should be at least 12 cm thickness for the best result.
- Flatten out the freshly poured concrete with a vibrating beam. As soon as its plasticity permits, smooth the concrete preferably using a mechanical trowel.
- Air Entrained Concrete is not a suitable substrate for the application of dry shake hardeners.

- The concrete should contain an adequate proportion of cement.
- Level the freshly poured concrete by means of a vibrating beam. As soon as the plasticity permits, smooth the concrete preferably by using a mechanical trowel.

2. Broadcasting of APCOFLO MAX TOP:

- The concrete slab is ready for the **APCOFLOR MAX TOP** coating when a thumb pressed hard onto the surface only leaves a 'print' of about 3 - 5 mm depth. Broadcast the mix evenly by hand or with suitable device. Apply approx. 3.0 to 5.0 kg/m²

3. Compaction:

- Wait until the **APCOFLOR MAX TOP** is moistened by the water in the concrete. Thereafter, use a low rpm mechanical trowel, held perfectly flat. Caution: If parts of the surface come loose or if the laitance rises, this means the concrete is still too fresh.

4. Smoothing:

- As soon as the plasticity or initial set allows, perform preliminary smoothing with the same machine running at low speed but equipped with metal smoothing blades, set at minimum angle. Any final smoothing required should be performed later with the machine running at high speed.

5. Curing Treatment:

- SCIB **APCOFLOR MAX TOP** surface must be protected to prevent early dry-out, crazing and bloom. After 1 day of application, water can be sprayed over the surface for 7 days for complete curing.

6. Joints:

- Floor joints should be sawed out with a light saw within 1 - 7 day(s) after application according to the ambient temperature. After finishing operations and completing saw cuts, clean off any residual saw lubricant / slurry without delay. Joints can be filled with appropriate SCIB sealant in accordance with the floor design requirements.

7. Application Information:

Consumption	3.0 to 5.0 kg/m ² , yielding a surface strengthening coat of approx. 2 - 3 mm thickness.		
Ambient Air Temperature	+5°C min. +35°C max.		
Relative Air Humidity	30% R.H. min. 98% R.H. max		
Substrate Temperature	+5°C min. +35°C max		
Applied Product Ready for Use	Substrate Temperature	+10°C	+20°C
	Foot Traffic	~ 18 hours	~ 12 hours
	Fully Serviceable	~ 10 Days	~ 7 Days
	The above values are dependent upon the concrete reaching its design strength for serviceability and will be affected by changing ambient conditions, particularly temperature and relative humidity.		~ 8 hours ~ 5 Days

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APPLICATION TOOLS



PACKAGING

25 KG

STORAGE AND SHELF LIFE

Up - to 12 months if stored according to manufacturer's instruction in unopened containers. Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction

SAFETY PRECAUTIONS

- Please refer to material safety data sheet (MSDS) before using the product.
- Please revert to technical office for application advice.
- For alternative systems may be specified, depending on area of use.