



Top Floor FC 500-WB

Product Description

Top Floor 500-WB is a hygienic, two-component water-based epoxy coating engineered for environments where cleanliness and health protection are critical. It combines superior durability, adhesion, and mechanical strength with an antibacterial surface that helps prevent microbial growth. Its eco-friendly formula ensures safe application while delivering long-lasting protection.

Product uses:

- Hospitals, clinics, laboratories, and pharmaceutical facilities.
- Food processing plants, kitchens, and storage areas.
- Schools, gyms, and public spaces requiring hygienic surfaces.
- Industrial and commercial flooring with hygiene standards.

Properties

- Hygienic surface: resists bacterial and fungal growth.
- Excellent adhesion to concrete, wood, and metal.
- High mechanical strength and abrasion resistance.
- Water-based formula: eco-friendly, low odor, safe for applicators.
- Non-drip properties on vertical surfaces.
- Fast drying time for efficient project completion.
- Easy application by roller, brush, or spray.

TECHNICAL PROPERTIES

Appearance/Color	Glossy / Available in RAL color card.
Density:	~1.35 kg/liter (Mixed)
Volume solids %:	52 ± 2%
Theoretical spreading rate:	7 m ² /ltr / 5.2 m ² /kg (75 micron DFT)
Recommended DFT:	200-250 micron
(Dry Film thickness)	
Adhesion Strength to Concrete:	> 4 N/mm ² (TS EN 4624)
Adhesion Strength to Steel:	> 3 N/mm ² (TS EN 4624)
Wear Resistance:	~60-70 mg (CS 10/1000/1 000) (DiN 53109)
Compressive Strength:	≥ 60 N/mm ² (7 days cure at 25°C)
Flexural Strength:	≥ 25 N/mm ² (MPa) (ASTM D790)
Flash Point:	25 ° C. /77 °F
Open time:	45 minutes at (23°C and 50% R.H.)
Surface dry:	1-2 approx. hour(s) 23°C/73.4°F 50% R.H
Light foot traffic	12-14 hours (23°C and 50% R.H.)
Full dry:	24 hours (23°C and 50 % R.H.)
Full cure time:	7 days (23°C and 50 % R.H.)
Application temperature:	+8 °C/46.4° F and +35 °C/ 95°F
Min. cure temperature:	+10°C/50°F



Application Details

<i>Mixing Ratio:</i>	Component A: 4 - Component B: 1 (By weight)
<i>Application method:</i>	Roller & Brush – Airless Spray
<i>Pot Life:</i>	45 minutes at (23°C and 50% R.H.)
<i>Thinner:</i>	Fresh Water
<i>Thinner Amount:</i>	10 % for roller application / 5% for airless spray

Surface Preparation:

Concrete should be minimum 28 days old to allow for curing. Prior to the application of any coating the maximum moisture content allowed is 4%. Concrete Substrates must be cured, sound, clean, dry and free from laitance, loose particles and contaminants such as oil, grease, curing compounds, shuttering oils, chemicals, etc. This is achieved by using the adequate combination of mechanical means such as abrasive blast cleaning, grinding, high-pressure water jetting (150 bars/ 2200 psi) and detergent cleaning. Unsound concrete, surface defects, blowholes, honeycombs, aggregate pop-offs, and the like should be repaired using “**Topox Filler SF-050**”

PRECEDING COAT:

- Top Floor TS 700 WB

Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 12-16 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
- The natural tendency of epoxy coatings to chalk in outdoor exposure.

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.



Legal Notice:

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