



HD FLOORTOP # 900 (SELF LEVELLING SCREED)

General Description:

H.D. FLOOR TOPPING # 900 is blend of epoxy resins, hardener and selected silica aggregates to provide a hardwearing, attractive floor, which is chemical resistant, impervious and easy to clean.

Major Uses:

Ideal for use in pharmaceutical factories, laboratories, switchgear plant rooms, hospitals, and any application requiring a hygienic, easy clean surface and traffic deck system.

Advantages:

- Solvent free – low odour.
- High chemical resistance.
- Hard wearing.
- Easy to clean – seamless.
- Attractive.
- Available in a range of colors.

Characteristics and Physical Properties:

Colour	Any choice of colour
Solid content	100%
Specific weight (A+B)	1.40 kg/L
Pot life @ 30 ⁰ C	25 mins
Initial hardness @ 30 ⁰ C	8 hrs
Full cure @ 30 ⁰ C	7 days
Mixing ratio (A + B + C)	Pre-weigh

Mechanical Properties:

Compressive strength (ASTM C-579)	65 N/mm ²
Tensile strength (ASTM C-580)	25 N/mm ²
Adhesion to concrete (ASTM D-4541)	4-5 N/mm ²
Modulus of Elasticity (ASTM C-580)	5500 N/mm ²

Chemical Resistance:(ASTM D 543)

Water, de – ionized	Unaffected
Sulphuric Acid, 14%	Good
Nitric Acid, 30%	Good
Acetic Acid, 10%	Good
Caustic Soda, 20%	Good
Petrol	Very good
Toluene	Very good
Styrene	Very good
Skydrol (Hydraulic Fluid)	Good
Soap Solution , 1%	Unaffected
Sodium Carbonate, 2%	Unaffected

Surface Preparation:

- New concrete or cementitious substrates should be at least 28 days old and moisture content should be less than 5%.
- All laitance and loose materials must be removed from the concrete surface. If the concrete is strong and sound, this may be achieved by acid etching followed by thorough washing with water, the floor must be left to dry.
- Cracked and damaged concrete or heavy laitance should be prepared by grit blasting until a solid surface is reached showing exposed aggregate.
- All dust and debris should then be removed. Surfaces contaminated with oil or grease should be flamed cleaned and thoroughly wash with a good detergent.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

MAS PAINTS & CHEMICAL INDUSTRY

P.O. BOX NO: 23085, SAJJAH INDUSTRIAL AREA, SHARJAH, U.A.E

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Mixing and Application:

- Pour the hardener, resin base and silica aggregates into a suitable mixing vessel and mix with power drill equipped with flat paddle until homogenous and uniform colour has been achieved and mix for 2 – 3 minutes until the mixture is smooth and free of lumps
- Pour the mixture onto the floor and spread with a pin screed, toothed trowel, or steel float, approximately 2 – 3-mm. thickness. The material should be rolled with spike roller to release entrapped air and remove trowel marks. Continue rolling until uniform colour is obtained. Repeat the rolling process after 20 – 30 min.

Limitations:

- H.D. FLOORTOP # 900 should not be applied onto surfaces known to or likely to suffer from rising damp conditions. It should not be installed at a temperature below 10°C and above 35°C with a relative humidity greater than 75%.
- H.D. FLOORTOP # 900 should not be applied on top of asphalt, weak or friable concrete, unmodified cement screed, PVC and non – porous tiles.
- H.D. FLOORTOP # 900 should not be applied where thermostatic pressure is high.

Priming:

- Apply 1 – 2 coat of Uniseal # 110 as a concrete sealer and conditioner. Primer should be tack – free prior to laying of H.D. FLOORTOP # 900.

Equipment:

- Trowel
- Low RPM Drill
- Brush or Roller
- Vacuum Cleaner
- Spiked Roller
- Steel float
- Pin Screed
- Gloves
- Spiked Shoes.

Storage:

Shelf life of 12 months minimum if stored below 25°C.

Coverage:

For a thickness of 2 mm, the theoretical yield is 0.5 m²/L (2.8 kg/m²). The coverage will depend on the porosity of the surface.

Cleaning of Tools:

All tools should be cleaned with Wash Thinner or Epoxy Thinner # 135 as soon as possible.

Packing:

H.D. FLOORTOP # 900 is supplied in three (3) component. Resin A + Hardener B + Aggregates pre-weigh in 20 liter

Physiological Hazards:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapour.

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