



H.D. FLOORTOPPING # 900

(SELF-SMOOTHING SCREED)

General Description:

H.D. FLOORTOPPING # 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 odor.
- High chemical resistance.
- Hard wearing.
- Easy to clean – seamless.
- Attractive.
- Available in a range of colors.

Characteristics and Physical Properties:

Color	Any choice of color.
Solid Content	100%
Pot Life @ 30 ⁰ C	25 minutes.
Initial Hardness @ 30 ⁰ C	8 hrs.
Density	1.65 gm / cm ³
Full Cure @ 30 ⁰ C	7 Days.

Mechanical Properties:

Compressive Strength: ASTM C - 579	65 N / mm ²
Flexible Strength in Tension: 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:

Test Result as per 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 of the substrates 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 and scabbling 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.

Mixing and Application:

Pour the hardener and resin base into a suitable mixing vessel and mix with power drill equipped with flat paddle until homogenous and uniform color has been achieved.

With the mixer still running, slowly add the silica aggregates 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 color 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 10⁰C and above 35⁰C 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.

Equipment:

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

Priming:

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

Storage:

Shelf life of 12 months minimum if stored below 25⁰C.

Coverage:

4 – 5 kg / m² of resin and hardener mix (2.5 –3 lit. / m²)

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 as a 22.5 kg (15 lit. mixed) multi component pack.

Physiological Hazards:

Keep resin and hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas.

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.

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