



Products Description:

WINTOP STC is a Polyurethane based hybrid Staircase floor Coating compound consisting of four components viz. WINTOP STC -R resin, WINTOP STC -H hardener, WINTOP CP colour paste and Aggregate SL-200 filler. WINTOP STC is a self priming, self leveling coating which provides high adhesion and tremendous strength.

Features and Benefits:

WINTOP -STC is an attractive Staircase floor topping and is characterized by

- Anti skid and joint less finish.
- Excellent adhesion to concrete and other mineral surfaces.
- Solvent free and Oder free.
- Good chemical and abrasion resistance
- Easy to clean and maintain. Oil and waterproof surface.
- Flexible and strong
- Aesthetically enhanced look, changes working environment.

Areas of Application

- Staircases and Fire Escapes
- Pharmaceutical industries
- Research Laboratories
- Store rooms , warehouses
- Hospital clean rooms
- Electronic assembly
- Nuclear power plants
- Dairy industry, Industrial kitchens
- Food processing plant
- Bottling plants
- Control Rooms
- Paper Mills
- Computer room

Application Methods:

Surface Preparation - All surfaces must be sound, clean, dry, free from oil, grease, cement laitance and all loosely adhering particles. Basic Concrete floor defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the Floor coating system with specially formulated High strength, Non shrink, self curing, self bonding, fast curing flooring compatible epoxy resin based repairing mortar WINTOP EM used to level, smooth and patch damaged surfaces. Old Concrete surfaces: Surface contaminations, e.g. oil, paint and rubber or any other contaminations should be removed and adequate mechanical preparation carried out to achieve a sound and stable surface. When clear of all surface contamination, the concrete should be prepared mechanically to remove all laitance and expose a fresh surface. After surface preparation all loose debris and dirt should be removed by vacuum machine

Application of WINTOP-STC

WINTOP STC is supplied in pre weighed two components ready to use on site. Preferably use slow speed electric stirrer for mixing component. First mix WINTOP STC-ER(Resin) with WINTOP CP (Colour-Pigment) in a mixing vessel until uniform colour is obtained. Then add WINTOP-STC-EH (Hardener) and stir well. Finally add Aggregate SL-200 and stir until a homogeneous mixture is obtained. Spread WINTOP-STC mixture on the prepared surface by using toothed trowel or comb. The thickness should be approx. 1 mm or 2 mm. After approx. 10 minutes, use spiked roller to remove entrapped air. Allow floor topping to cure for 2 to 7 days at room temperature before use. Depending upon the size of the trowel, thickness can be adjusted from 1 mm to 2 mm.

Properties of Material Supplied:

<p>Components and Mixing (PBW)</p> <p>WINTOP STC WITOP STC-R : WINTOP STC-H:WINTOP CP : SL-.200 100 : 0.600 : 200 : 10</p>	<p>Pot Life WINTOP STC : Approx. 45 min. Mixture @ 30°C</p> <p>Curing Schedule : Foot traffic / Light load : 24 – 48 Hrs Full traffic load : 7 days</p>
<p>Coverage : 1.5-1.6 Kg mixed material for 1mm thickness for 1 Sq.mt. *</p>	

**Cured Material Properties:**

Property	Test Method	Unit	Typical Values
Compressive strength	ISO 604	N/mm ²	50-55
Flexural strength	ISO 178	N/mm ²	40-48
Tensile strength	ISO 527	N/mm ²	18- 23
Impact strength	ISO 179	KJ/m ²	7-10
Bond strength	ASTM D-4541	Kg/m ²	32-35 (concrete failure)
Abrasion Resistance	ASTM D-4060,CS-17 Wheel	gm. max weight loss	0.2-0.1
Impact Resistance	ASTM D-2794	joules	3-5-4.4
Dry Heat resistance	ASTM D-2485	°C	80-100
Scratch Resistance	BS 3900 Part E2	Kg	No failure, 2-2.5

Chemical Resistance properties of WINTOP STC:

Resistance to various chemicals at ambient temperature (25 – 35°C).

Sr No	Chemicals	Concentration	Observation
1	Acetic acid	3-5%	Resistant
2	Hydrochloric acid	10-12 %	Resistant
3	Sulphuric acid	10-12%	Resistant
4	Nitric acid	7-10%	Resistant
5	Phosphoric acid	5-15%	Resistant
6	Salt solution	Concentrated	Resistant
7	Sodium hydroxide	10-20%	Resistant
8	Water	-	Resistant
9	Lactic	7-10%	Resistant
10	Citric acid	7-10%	Resistant
11	Petrol	-	Resistant
12	Oil	-	Resistant
13	Fruit juice	-	Resistant

Cleaning of Tools

Tools and equipment contaminated with liquid WINTOP-STC or Primer can be cleaned with Cleaner 1 or suitable solvent. Cleaning should be done before it starts to gel or harden.

Safety and Handling

Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.

Storage and Shelf Life

Winone products should be stored in well ventilated place. The area of storage shall be covered protecting the material from direct sunlight. The shelf life of these products shall be one year from the date of manufacture in sealed unopened container.

TECHNICAL SUPPORT

Technical information and guidance regarding WINONE range of admixtures, repairs and bonding, water proofing systems, epoxy industrial flooring systems etc, will be available from the technical services department, of WINONE. WINONE range of products undergoes high standard quality checks and every reasonable precaution is taken in the manufacture of all products. WINONE continuously strive to ensure the products, recommendations, specifications & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trials to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale.