

Products Description:

WINTOP-ESL is an epoxy based self-levelling floor topping compound consisting of four components viz. WINTOP SL-ER , WINTOP SL -EH hardener, WINTOP - CP colour paste and Aggregate SL-200 filler. A two component epoxy primer, WINTOP EP OR EPW is suggested for coating on thoroughly cleaned substrate prior to application of self levelling compound.

Features and Benefits :

WINTOP -ESL is an attractive floor topping and is characterised by

- Smooth and jointless 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.
- Does not support bacterial growth.
- Aesthetically enhanced look, changes working environment.

Areas of Application:

- Automobile / Engineering Industries
- 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:

Joints Treatment- Joints in substrate should be maintained while floor topping with WINTOP-ESL is done. WINTOP-ESL should be used only on high strength substrates. New concrete should be cured for minimum 28 days.

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 epoxy 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

Primer application - Use the primer as recommended for specific use. Mix components of WINTOP-PR primers in proportion as recommended. Once mixed, primer should be immediately applied in a thin, continuous film using stiff brush/ roller or trowel. Porous floors may require two coats of primer. Primer should be allowed to cure sufficiently, normally 6 – 18 hrs, prior to application of WINTOP-ESL.

Application of WINTOP-ESL

WINTOP-ESL is supplied in pre weighed four components ready to use on site. Preferably use slow speed electric stirrer for mixing component. First mix WINTOP–ESL-ER (Resin) with WINTOP-CP (Colour-Pigment) in a mixing vessel until uniform colour is obtained. Then add WINTOP-ESL-EH (Hardner) and stir well. Finally add Aggregate SL-200 and stir until a homogeneous mixture is obtained. Spread WINTOP-ESL mixture on the prepared surface by using toothed trowel or comb. The thickness should be approx. 1mm 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.

Composition of Material Supplied

<p>Components and Mixing (PBW) Primer : WINTOP EP-R Resin : WINTOP EP-H Hardner 100 : 50</p> <p>WINTOP SL WINTOP ESL-ER :WINTOP ESL-EH : WINTOP ECP : SL-.200 100 : 0.600 : 0.10 : 200</p>	<p>Pot Life EP-R +EP-H: Approx. Mixture @30°C 2 Hrs WINTOP EPSL : 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 per 1 mm thickness per 1 sq.mt. on properly prepared surface.</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 ESL :

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-ESL or Primer can be cleaned with Cleaner EP 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 Polymer Technology. 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.