



**AERO**<sup>TM</sup>  
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

## AERO FLOORSCREED EP

Epoxy resin based heavy duty chemical & abrasion resistant flooring

### Description

AEROFLOOR SCREED EP is a three part epoxy based high strength floor topping that forms a chemical & abrasion resistant flooring with a non-slip finish for personnel and vehicular traffic. Ideally suited for application in all kinds of industries subjected to heavy wear and tear, mechanical and chemical use. It can be laid in varying thickness of 3 – 6 mm and over coated with epoxy coatings for hygienic conditions.

### Uses

AEROFLOOR SCREED EP provides an extremely high strength floor topping with exceptional resistance to surface mechanical wear and attack from chemical spillage. The trowelled screed has a safe nonslip finish.

- Power plants
- Workshops & warehouses
- Petrochemical refineries
- Food processing unit
- Dairies & cold storage rooms
- Abattoirs, beverages & soft drink bottling plants
- Industrial floor joints & coving
- Hygienic & clean environment areas
- Internal loading and unloading bays and ramps
- Chemical & Engineering Industries
- Paint shops & Battery rooms

### Advantages

- Toughness - High compressive strength resists heavy-duty movements of heavily loaded trolleys.
- Impact resistance - High impact strength prevents denting and point loading.
- Abrasion resistance - High abrasion resistance make suitable for movements of heavily loaded vehicular traffic.
- Chemical resistance - Resistant to wide range of industrial chemicals.
- Anti skid property - Provides safe, textured slipresistant surface for pedestrian and vehicular traffic even when wet.
- Durability It is highly durable when applied over internal floors unless otherwise damaged by mechanical means & highly aggressive chemicals.
- Over coatability over coating of epoxy / polyurethane based coatings are possible.

### Joint Design

- Expansion & moving joints are to be brought over through subsequent flooring system & sealed with properly selected sealants.
- All other stable joints (dummy joints, etc.) are to be filled up prior to lay the screed as per the designed thickness.
- Joints should be cleaned and prepared as per the instruction of AERONICAL team.

### New Construction

Concrete floors, to be coated should be allowed to cure for atleast 28 days. Floor should be sound, clean and free from oils, grease, mortar, loose particles, dust etc. Laitance should be removed by the use of mechanical means such as vacuum recovery shot blasting. Moisture content should be less than 4%.

### Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Appearance of the mix	Grey color cohesive mortar
2	Mixed Density kg/ltr. @ 30 °C	2 – 2.2
3	Pot life of mix @30 °C	30 minutes
4	Setting time @ 30 °C	6-7 hours
5	Foot trafficable time @30 °C	24 hours
6	Full Cure Time @30 °C	7 days
7	Compressive strength 7 days	82 N/mm <sup>2</sup>
8	Flexural Strength 7 days	27 N/mm <sup>2</sup>
9	Tensile strength 7 days	14 N/mm <sup>2</sup>
10	Abrasion resistance mgm/cycle	

### Existing substrate

All contamination must be removed and a sound clean substrate should be exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. All cracks and minor damage-surface should be repaired and allow to dry prior to priming.

### Priming

Mix AEROCOTE EP PRIMER in the proportions supplied, and apply by brush or roller spreading to thin film on prepared floor. Examine after 30 minutes and apply more material to any areas that have absorbed the primer. Commence the application of AEROFLOOR SCREED EP after 4 hours (at 30°C) of applying the primer or primer becomes tack free.

### Application

- AEROFLOOR SCREED EP should be installed by specialist applicators that must follow the product application procedure as per the AERONICAL data sheet.
- Overlay mixed AEROFLOOR SCREED EP over the primed surface when it is in tacky condition.
  - It is ideal to work in lanes of 2 to 3 ft. width for effective leveling & troweling.
  - Spread it uniformly to the desired thickness.

### Finishing

- Use a wooden float to compact the material fully. Smooth & level the compacted material by using steel trowel.
- Use proper templates to maintain the desired compacted thickness at all areas.



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- AEROFLOOR SCREED EP should be over-coated with either coating or topping to prevent it from dust accumulation.
- It is recommended that AEROFLOOR SCREED EP be cured for 7 days @ 35°C or 12 days @ 20°C prior to being subject to in service conditions or any final coat on top.

### Tools Cleaning

- Clean tools and equipment with AERO TOOL CLEANER immediately after use.
- Hardened material can be removed only mechanically.

### Packing & Coverage

Packing : AEROFLOOR SCREED EP consists of Base, Hardner and aggregates is available in 25kg pack.

Coverage : 4 m<sup>2</sup> per 25 kg pack at 3 mm thickness 2 m<sup>2</sup> per 25 kg pack at 6 mm thickness.

### Shelf Life & Storage

AEROFLOOR SCREED EP has a shelf life of 12 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

### Quality Assurance

AERO CONCHEM LLP. is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008 certified.

### Health & Safety

AEROFLOOR SCREED EP is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately. Full health and safety data are given in Product Safety Data Sheet.

### OUR RANGE OF PRODUCTS



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