



## EPOSCREED 10

### Solvent Free Heavy Duty Epoxy Screed

#### Composition and Application Field

**EPOSCREED 10** is three components epoxy resin system. It is for 3 - 10.0 mm thickness application epoxy flooring screed. EPOSCREED 10 forms a hard build screed with excellent adhesion to concrete, and abrasion resistance.

#### Advantages

- Non-slip finishing.
- Fast curing comparing to cement screed.
- High impact resistance.
- Hard wearing – durable.
- High abrasion resistance.
- High compressive strength
- Provides hygienic – impervious finish
- Human safe.
- Solvent free.
- Available in different colors.

#### Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed by degreaser followed by water or steam cleaning. New concrete floors should be at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical method. Dust and other debris should be removed by vacuum cleaning. The substrate should be dried and relative humidity not more than 75% as per BS 8201. Old concrete floors damaged areas or surface irregularities should be separately repaired as batching areas by using EPOMORTAR FC (fast curing epoxy mortar, refer to TDS). Steel surface should be grit blasted then clean by solvent and kept to dry.

#### Mixing

The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use a heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Immediately start addition of aggregate bag gradually during mixing the mortar.

#### Application Method

Priming is recommended for concrete surface by using PRIME EP100, a two component, high solid content epoxy primer – refer to the relevant technical datasheet. **EPOSCREED 10** should be applied to prepared surface by using a steel trowel then tamped with a wooden float for more compacting. **CONCOAT EP150** (refer to the relevant technical data sheet) can be applied as an epoxy overcoat.

#### Coverage

Application rate will vary according to surface conditions, surface profile, application technique and job conditions. A coverage rate of 2.4 m<sup>2</sup>/pack at 5 mm DFT is dominant.

#### Cleaning

Tools and equipment can be cleaned immediately by using THINNERCOAT 10.

#### Package

12 litre pack (including, hardener and aggregate)

#### Technical Properties

TEST	RESULT	
Mixed Density	1.95 ± 0.05	
Volume Solid ASTM D 2823 - 91	100 % ± 1	
Application Temperature	10 0C to 450C	
Initial Hardness	15 hours at 35 <sup>0</sup> C	
Pot life	50 minutes at 35 <sup>0</sup> C.	
Full Cure	7 days at 35 <sup>0</sup> C	
Compressive Strength ASTM C 579 - B	> 80.0 N/mm	
Tensile Strength (BS 6319)	17 N/mm <sup>2</sup>	
Flexural Strength (BS 6319)	30 N/mm <sup>2</sup>	
Abrasion Resistance (ASTM D 1044-85)	1000 cycles < 20.0 mg	
Chemical Resistance	Petrol	Resistant
	Diesel	Resistant
	Engine Oil	Resistant
	Xylene	Resistant
	Skydrol	Resistant
	NaOH 20%	Resistant
	H <sup>2</sup> SO <sup>4</sup> 20%	Resistant
	HCl 36%	Resistant
	Acetic 5%	Resistant
	Lactic 20%	Resistant
	Brake fluid	Resistant
	Bleach	Resistant

#### Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 12 months in tightly closed container.

#### Flammability

EPOSCREED 10 is non-flammable material. THINNERCOAT 10 so do not expose to naked flames during application.

#### Health and Safety

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.