

DIFF FLOOR SCREED

TechnicalData: DIFFCOR/CR/06-18

Product Description:

DIFF-FLOOR SCREED is high solid heavy duty polymeric resin for mortar screed and metal surfaces has been specially developed for providing high strength to floor. DIFF-FLOOR SCREED is three component system, providing heavy duty flooring and has high mechanical strength, anti-skidding, non dusting and chemical resistance properties.

Application:

Industrial area with heavy loading production plants, workshops, warehouses, garages, hangers etc. DIFF-FLOOR SCREED is suitable for use on mortar, concrete, metal surfaces. DIFFGUARD GF, DIF- TUFF, DIFF FLEX can be use as top coat on DIFF-FLOOR SCREED .Temperature range 20-150°C.

Technology	Epoxy
Chemical Type	Epoxy
Appearance(Base)	Dirty Off White
Appearance(Activator)	Brown
Appearance(Mixed)	Off white
Components	Two component-requires mixing
Mix Ratio, by volume Resin: Hardener	3:1:5
Mix Ratio, by weight Resin: Hardener	3.3:1.1:5.6
Cure	Room temperature cure
Application	Floor Coating

TYPICAL PROPERTIES OF UNCURED MATERIAL

Base:

Viscosity: Paste
Weight per liter: 1.425 kg/liter

Hardener:

Viscosity: Paste
Weight per liter: 1.415 kg/liter

Mixed:

Viscosity: Paste

Coverage 0.33 m² @ 2mm thick/1kg

TYPICAL CURING PERFORMANCE

Curing Properties

Gel Time @ Ambient temp, minutes 50 to 55

Curing time vs. Temperature

Ambient temp	20°C	25°C	30°C
Pot life	60-65min	40-45min	35-40min
Full cure	24hrs	16hrs	12 hrs.

Note: For vehicular traffic it need curing of 48 hours

Typical cured properties of material

Compressive strength(ASTM D642)	4000-4500 Psi
Flexural strength (ASTM 790)	5000-5500 Psi
Hardness shore D (ASTM D2240)	88-90
Tensile strength (ASTM D882)	4500-5000 Psi
Shear strength (ASTM D1002)	2250 Psi
Abrasion resistance H-18 wheels 1000 cycles (ASTM D 4060)	132mg

PROCEDURE: a clean dry surface free of loose rust or scale is necessary. Abrasive blasting to “near white” is preferred for general use. For severe Immersion conditions or temperature exposure, blast to “white metal”. For concrete – Remove heavy grime by wire brush or mechanical abrasion, degrease with detergent followed by water rinse. Allow to dry fully. All deteriorated and weak concrete must be removed to expose sound surface

DIFF FLOOR PRIME should be used as priming material for excellent adhesion.

SURFACE PREPARATION:

FOR CONCRETE SURFACE

Concrete should be at least 28 days old, laitance deposits should be removed by mechanical scrubbing or grinding, concrete floor should be thoroughly washed with water. Concrete surface must be dry before the application of DIFF-FLOOR SC REED

In case of oily surface, floor should be burn with flame thoroughly and ensure complete burning of soaked oil in the floor.

Application

Mechanical Cleaning is a must especially, where oil, grease & other debris & coating has occurred. This cleaning should go as deep as several mm to make sure that concrete floor is ready to have good adhesion with DIFF-FLOOR PRIME.

Prior to application of Epoxy Floor Screed, priming of the concrete floor is an important issue. It is highly recommended to use DIF F-FLOOR PRIME which is a solvent free epoxy resin & compatible with DIFF-FLOOR SCREED. To prime the surface, mix part A with part B well, use stiff brush to apply mixed primer in a thin continuous film to the concrete surface. Apply screed when the primer coat is tacky.

Mixing:

Mix “base and activator and Sand” in specified ration which is supplied in contrasting colors, on clean flat surface. Mix with stirrer until a uniform blend free of streaks is obtained.