

# POXEECOTE 20GF

## HEAVY DUTY GLASS FLAKES EPOXY COATING

**POXEECOTE 20GF** is a 100% reactive, solventfree, two component, high build, polyamine cured epoxy coating extended with Glass Flakes. This system has excellent abrasion resistance with impermeability to gases and liquids.

### PRIMARY APPLICATIONS

- Auto /truck repair bays
- Warehouse floors
- Chemical Plants
- Manufacturing plants
- Show rooms
- Parking Decks

### FEATURES AND BENEFITS

- Provides excellent wear under traffic
- Excellent resistance to variety of chemicals
- Easy to apply with standard equipment.
- Can be applied as a nonslip floor finish.
- No separate primer required.
- Impermeable to gases and liquids

### ENGINEERING DATA

The mixing ratio of liquids in this system is 4 parts resin to 1 part hardener by volume.

Finish	: Semi - gloss
Colors	: Off - white, red, and gray, special colors are available on request.
Solids by volume	: 100%
Theoretical Spreading Rate	: 2.5 square meter per liter at 400 microns thickness
(dry or wet film)	
Dry to touch	: Approx. 24 hours at 20°C
Fully cured	: 7 days after application
Pot life	: 40 minutes at 25°C
Recoat Interval	: 23 hours minimum at 20°C 5 days maximum at 20°C
Airless spray Application	: Nozzle orifice 0.019" - 0.023" This Data is for indication only
Clean up	: Tools and equipments may be cleaned with xylene or aromatic solvents

### TYPICAL PROPERTIES (CURED)

Tensile strength	ASTM D 638	:> 27 MPa
Pull-off bond strength to concrete substrate		: 3 N/mm <sup>2</sup> concrete failure
Shore 'A' Hardness	ASTM D 2240	:> 98
Taber Abrasion	ASTM D 4060	: 45 mgs weight loss after 1000 cycle using CS-17 wheels and 1000 grams weight
Water permeability		: NIL penetration

### SURFACE PREPARATION

Surfaces must be structurally sound, dry, clean and free from oil, dust, curing compounds, grease, and other loose particles. Suitable methods for preparing concrete are by sand blasting, acid etching, water jet, grinding, wire brushing or pneumatic tools. For steel, abrasive blasting is recommended.

### PRIMER

If required apply a thin coat of **POXEECOTE 20GF** as a prime coat at approx. 50 - 75 micron thickness.

### NEW CONCRETE FLOORS

The concrete should be cured for 28 days cured. Laitance should be removed by light sand blasting or grinding where possible. substrate should not give a hydrometer reading that exceeds 75% R.H. When it is tested for its moisture content in accordance with BS 8203 Appendix A. Acid etching can be utilized to remove light laitance followed by thorough washing with water. Ensure the complete removal of salt produced by acid etching prior to application. Vacuum cleaning is recommended. Allow to dry.

### JOINTS AND EDGES

If the floor is subjected to wheel traffic the edges of the floor area should be saw curved 1/4" (6 mm) deep to provide a locked in edge. Moving joints in the case of expansion joints should be brought up through the coating. All crack over 1/16"(1.6 mm) wide shall be filled. Use a 100% solids epoxy mortar as CEMTEC EPOMORT 100 Mortar to fill the wide cracks, joints and keyed edges.

### OLD CONCRETE FLOORS

Removal of all contamination should be carried out by grinding, blasting or scabbling. Prior to application it is essential that the floor is sound and clean.

**REPAIRS**

If repairs are necessary, see CEMTEC EPOMORT 100 EPOXY MORTAR data sheet.

**EPOXY SCREED COATING**

POXEECOTE 20GF can be applied directly over CMCI CEMTEC EPOMORT 100 EPOXY MORTAR screeding for additional protection and wear resistance.

**MIXING / APPLICATION**

The hardener (part B) is added to the resin (part A) and mixed thoroughly until homogeneous (at least 3 minutes). Let stand for at least five minutes prior to application. **POXEECOTE 20GF** can be applied by brush, roller or airless spray. For nonslip surface, fine sand can be broadcast on the epoxy surface while still wet. Allow to cure for at least 24 hours and finally top with very thin coat.

**PACKING**

10 Liter kits

TD/0407/D

**TO MAKE A NON-SKID EPOXY FLOOR COATING USING "POXEE-COTE 20GF"**

- Prepare concrete surface to be coated as described in the surface preparation section of this data sheet.
- Mark the area to be coated in five (5) meters by ten (10) meters length sections. Mix the two liquid components (part A and part B) and pour direct from the container to the center of the marked area. Distribute the liquid using squeegee or roller. 1 Liter Kit of **POXEECOTE 20GF** will be approximately will cover 5 square meters at 200 micron thickness per coat.
- Immediately after the coating has been applied and distributed, broadcast the sand on the surface until it has absorbed the liquid. Allow to dry for at least 16 hours but not more than 36 hours.
- Remove the excess sand from the surface using a nylon bristled brush. Apply a second coat of **POXEECOTE 20GF** approximately 0.2 mm thickness. Allow to dry and cure for seven (7) days prior to use. The Dry Film thickness will be increased to approx. 450 micron with non-skid flooring.

**CLEAN-UP**

Clean tools and equipment with solvent such as CEMTEC Solvent, xylene. Do not allow the epoxy to harden on equipment.

**CHEMICAL RESISTANCE**

Acetic Acid, 5% .....	poor
Alkalies .....	excellent
Ammonia .....	excellent
Battery Acid .....	good
Hydrochloric Acid 10% .....	good
Methylene Chloride .....	poor
Salt Water .....	excellent
Oil.....	excellent
Ethylene Glycol .....	excellent

**LIMITATIONS:**

As in case with most epoxies, **POXEE-COTE 20GF** would change in color and appearance on exposure to Ultra Violet Light.

**QUALITY STATEMENT**

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.