

GreatFloor 200

Epoxy Coating for Concrete Floors

Product Description

Pioneer Pro GreatFloor 200 is a two component polyamide epoxy compound which cures into a tough and hard film.

Key Features

- Semi-gloss
- High durability
- Good chemical, solvent and abrasion resistance
- Very good adhesion on steel, concrete, and broadcast aggregate



Product Specifications / Typical Properties / Physical Characteristics

Table 1:

Physical properties: **UNCURED STATE***

Parameters	Results
Color	Standard colors and customized color
Components	2
Mixing Ratio (Part A:Part B)	3:1 by volume
Induction Time	20-30 mins
Appearance of Applied	No surface defects
%Solid by Weight (mixed)	60 - 80
Density, g/mL	
Part A	1.20 - 1.40
Part B	0.88 - 0.92
Viscosity @29°C	
Part A	60 - 70 KU
Part B	23 - 38 secs @ #4FC
Fineness of Grind (FOG), NS	6 - 7
Pot life @29°C	4-6 hrs (less at higher temperature)
Drying Time	
Initial Cure @29°C	12 hrs
Full Cure	168 hrs

Applications

It is ideally recommended as finishing coat for the following:

1. For properly prepared and primed steel and metal structures and equipment.
2. Floor coating over concrete epoxy primer.
3. Finish coat over broadcast aggregate, slurry and trowelled epoxy systems.

Table 2.

Physical properties: **CURED STATE***

Parameters	Results
Opacity, 150 microns wft	95% min
Gloss	>90
Adhesion, 7 days curing	4B - 5B
Hardness, 7 days curing	H min
Flexibility (Mandrel Test)	No crack at 180° bent
Abrasion Resistance Test, mg (1,000 cycles)	35 mg(weight loss)
QUV, 200 hrs (ASTM G154 Cycle 1)	No cracking, no blistering, no chalking
Theoretical Coverage @50 μ DFT	7-10 m ² /L

Table 3. Chemical properties:

Parameters	Results
VOC, g/L	
Part A	298.2
Part B	405.1

Application Procedure

Surface Preparation

Aged Uncoated Concrete. Must be dry, clean and free from oils, fats or greases. Degrease or scrub with detergents if necessary. The concrete must be free from any incompatible additives or curing agents. Acid etch or abrasive blast clean. Prime with Pioneer Pro GreatFloor 100.

Previously Epoxy-Coated Concrete. Remove loose dirt, dust and paint by sweeping or vacuum cleaning. Remove grease, oil, floor

compound wax and other contaminants. Caustic soda treatment must be used on areas covered with a build-up of grease and/or soap scum. Heavy contaminated areas may require further removal by mechanical methods. If the floor is very old and completely saturated with oil, no cleaning method will completely remove the oil. In this case, try small areas and apply a sample of the system before cleaning the entire floor. Very glossy or hard coatings should be lightly sanded to insure maximum adhesion. Concrete floor areas which require patching should be free of dirt, oil, grease and other chemical contaminants. A test patch is recommended for use over existing coatings. Prime with Pioneer Pro GreatFloor 100.

Steel. Remove all loose rust, dirt, moisture, grease or other contaminants from surface. Power-tool clean SSPC-SP3 or hand-tool clean SSPC-SP2. For more severe environments, dry abrasive blast SSPC-SP7. Water blasting is also acceptable. Prime with Pioneer Steel Primer.

Method

1. Flush all equipment with thinner before use.
2. Stir each component separately, then mix Part B (Hardener) into Part A (Resin) in 3:1 ratio (Part A: Part B). Mix until homogeneous. Let stand for 20-30 minutes before application.
3. Apply a wet coat in even, parallel passes. Overlap each pass 50% to avoid bare areas and pinholes. If required, cross spray at right angles to first pass.
4. Check dry film thickness using non-destructive dry film thickness gauge such as Mikrotest or Elcometer. If less than the specified thickness, apply additional material.
5. Touch up random pinholes and small damaged or bare areas by brush when film is dry to touch. Larger areas should be resprayed.
6. Clean all tools or equipment used while coating is still in its uncured state. Use Pioneer Epoxy Reducer or lacquer thinner to clean tools and spills.

Cleaning. Clean all tools or equipment used while coating is still in its uncured state. Use lacquer thinner to clean tools and spills.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Conventional Spray - Industrial equipment such as De Vilbiss, MBC or JGA, or Binks #18 or 62 spray gun. A moisture and oil trap in the main air supply, mechanical pot agitator, separate regulators for air and fluid pressure are recommended.

Airless Spray - Standard equipment such as a 33:1 pump or larger with a 0.017-inch tip with pre-orifice or fine finish tip.

Packaging

Gallon set (4 sets per box)

Storage

12 months in an unopened bag from date of manufacturing following the required storage condition.

Shelf Life

24 months

Health and Safety Precautions

Read safety data sheet before use. Safety precautions must be strictly followed during storage, handling and use.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. Use only in well-ventilated areas. Store in cool, dry place in tightly closed receptacles. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where the material is handled, stored and processed.

Avoid storage near extreme heat, ignition sources or open flame. Keep container tightly sealed. Store in an area with adequate ventilation.

KEEP OUT OF REACH OF CHILDREN.

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