



## Great Floor 100



### PRODUCT DESCRIPTION

PIONEER PRO Greatfloor 100 is a two component, 100% solids epoxy especially formulated as a high strength binder for use in light to heavy-duty seamless epoxy coating primer. It has a low viscosity for good penetration into concrete and uniform wetting of filler aggregates.

### TYPICAL USE

PIONEER PRO Greatfloor 100 is designed for use as a:

1. Protective coating.
2. Pigmented binder for seamless broadcast flooring system.
3. Low viscosity binder for trowel applied mortar flooring.
4. High quality concrete epoxy primer.

### TECHNICAL DATA

#### TABLE 1. PHYSICAL DATA

Finish:	Gloss, will chalk if exposed to sunlight
Weathering Resistance:	Very Good. On exposure to sunlight, it will chalk and light colors may yellow without detracting from overall durability.
Color	White, Red, Blue, yellow, Grey, Light Grey White and light colors may show yellowing on aging. Yellow, Red and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.
Components:	2
Curing Mechanism:	

	Chemical Reaction Between components
Induction Time:	5 – 10 minutes. (Epoxyes are often cured by amine functional polyamides and typically, not particularly soluble in the epoxy side. Because of this poor solubility. It is often necessary to allow extra time after mixing for the reaction products to gain solubility characteristics more closely related to each other. This extra time is called "induction Period" or "sweat-in time" and allows time for two resins to partially co-react).
Theoretical Coverage:	20-25 sq.m. per gal at 200µm dft (wft - 200µm). Material losses during mixing and application may vary and must be considered when estimating requirements.
Solid Content, Mixed volume %: 99 ± 1%	
Pot Life @ 29 °C :	1 ½ hour, less at higher temperatures. (keep out of the sun before blending. Some discoloration and darkening will occur at temperatures greater than 200°F (93%), this will not affect film integrity or coating performance).

**HEAVY-DUTY  
SEAMLESS  
EPOXY COATING  
PRIMER**

Mixing Ratio  
(by Volume): 2 parts A to 1 part B

Dry Time:  
Initial Cure @ 29° C: 12 hours  
Full Cure  
Maximum Strength 168 hours  
Shelf Life: A and B components in unopened containers is 36 months. store at

temperatures between 50°F and 100°F (10°C to 38°C). Do not open containers until ready to use the material.

---

**Note:** The figures quoted for potlife and drying/curing times are dependent on site conditions such as volume of material mixed, ambient and substrate temperatures, weather and ventilation.

## **APPLICATION PARAMETERS**

### **SURFACE INSPECTION:**

1. Check floor design, integrity and contaminants.
2. Check moisture content. Moisture in the concrete may be detrimental to coating adhesion.

## **Great Floor 100**

### **SURFACE PREPARATION:**

#### **A. 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. Perform etching or mechanical abrading using power tools, then remove debris, dust, dirt, loosely adherent laitance and concrete.

#### **B. 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 cleaning a small area and apply a sample of the system before cleaning and entire floor.

If the surface that is to be coated is smooth or shows whatsoever, the surface should be abraded using a medium to coarse sand paper. Make sure that you remove any dust from the surface by vacuum cleaning.

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.

## **MIXING**

Stir individual components, then combine, adding Part B to Part A and mix thoroughly until uniform blended to a workable consistency. Use immediately, do not mix more material than can be used within the expected pot Life. No thinner required.

## **EQUIPMENT**

Brush or roller application: Additional coats may be required to attain proper thickness.

## **CLEANING**

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.

## **HEALTH AND SAFETY PRECAUTIONS**

Safety precautions must be strictly followed during storage, handling and use. Do not use this product without taking all appropriate safety measures property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, specially in confined or enclosed spaces, such as tank interior and buildings. This product is to be used by those knowledgeable about proper application methods. RCI makes no recommendation about types of safety measures that may be adopted because these depend on application and space, of which RCI is unaware and over which it has no control.

## **WARRANTY**

RCI Warrants its products to be free from defects in material and workmanship. RCI's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at RCI's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming to this Warranty must be made by Buyer to RCI in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify RCI of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

RCI makes no other warranties concerning the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall RCI be liable for consequential or incidental damages. Any recommendation or suggestion relating to use of the products made by RCI, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by buyers having requisite skill and know how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that buyer has done so, its sole discretion and risk. Variation in environment changes in procedures of use, or extrapolation of data may cause unsatisfactory results.