# PANSEAL Floor Base — 2000FC

*Model: 2000FC • Generic type: Polyamide epoxy*

**Effective Date:** October 2026

## 1. PRODUCT DESCRIPTION

PANSEAL Floor Base is a no-VOC, multi-component epoxy system formulated to repair, strengthen and enhance surfaces with a high-strength coating rated at 2,750 psi adhesion. It is an all-purpose, abrasion-proof sealant that handles extreme chemicals and environmental conditions and permanently protects surfaces without degrading over time. Floor Base protects substrates against future corrosion while sealing leaks and encapsulating any corrosion remaining on the surface.

### Models

| Model # | Description | Amount | Coverage at 15 mils |
|---|---|---|---|
| 2000FC | PANSEAL Floor Base gallon kit | 1 gallon | 107 sq ft |

* Other sizes and amounts available on request.

### Recommended concrete flooring system

| Step | Product | Role |
|---|---|---|
| 1 | PANSEAL Concrete Primer (1100FC) | First step — primes the concrete |
| 2 | PANSEAL Floor Base (2000FC) | Main floor coating |
| 3 | PANSEAL Top Coat (1000FC) | Third step, if needed |

## 2. FEATURES & BENEFITS

- High-strength, abrasion-proof flooring
- No VOCs, no solvents, very minimal odor
- Easy brush, roll or spray application
- Self-leveling to a glass-like finish; can be applied vertically
- Works on metal, fiberglass, stainless steel, plastic, concrete and wood
- Bonds chemically and mechanically to the substrate
- Excellent adhesion strength — 2,750 psi (pull-off adhesion test, ASTM D4541)

## 3. RECOMMENDED USES

- Flooring base coat
- Leak-sealing adhesive
- Abrasion-resistant linings
- Tank linings
- Permanent corrosion protection

## 4. SELECTION & SPECIFICATION DATA

| | |
|---|---|
| **Generic type** | Polyamide epoxy |
| **Colors** | Light gray, dark gray, black, blue, red, white |
| **Finish** | Gloss |
| **Primer** | Self-priming (see Section 5 for concrete) |
| **Solids content by volume** | 100% |
| **Theoretical coverage** | 160 sq ft at 10 mils · 80 sq ft at 20 mils |
| **Dry temperature resistance** | Continuous: 220 °F (104 °C)<br>Non-continuous: 250 °F (121 °C) |
| **Under-insulation resistance** | Continuous: 175 °F (79 °C) |
| **Elasticity** | 8% |
| **Specific gravity** | Resin: 1.45 · Hardener: 0.97 |
| **Mixing ratio** | 3:1 (A to B) by volume |

Discoloration and loss of gloss occur above 200 °F (93 °C) but do not affect performance.

## 5. SUBSTRATES & SURFACE PREPARATION

The cleaner and better-prepared the surface, the better the adhesion to the substrate.

| Substrate | Preparation |
|---|---|
| General | Surfaces must be clean and dry. Remove all dirt, dust, oil and other contaminants. |
| Primer | Self-priming on most surfaces. Apply Dynesic Concrete Primer (1100FC) prior to Floor Base on concrete surfaces. |
| Metal, galvanized | Many applications can be pressure washed or scrubbed with a degreaser such as Dynesic DX-ETCH, or with water where there is no chance of oils or greases remaining. In more extreme conditions, or depending on surface type, an etched surface is recommended. Pressure wash or similar to remove cleanser prior to coating. |
| Stainless steel | Coatings have difficulty adhering to slick surfaces; Floor Base's 2,750 psi adhesion strength allows it to fully adhere to stainless steel. An etched profile achieved by sandblasting or grinding is recommended — an etched, rather than polished, profile is the goal. |
| Concrete / CMU | Concrete must be cured 28 days at 75 °F (24 °C) and 50% relative humidity or equivalent. Prepare in accordance with ASTM D4258 (Surface Cleaning of Concrete) and ASTM D4259 (Abrading Concrete). Voids may require surfacing with PANSEAL Paste Grade (2500PG) to fill and strengthen the substrate. Prime first with Dynesic Concrete Primer (1100FC). |
| Fiberglass, wood | Clean and apply. |

* To coat over previously painted surfaces, contact the Dynesic Technical Service Department at 972-692-0962.

## 6. CHEMICAL RESISTANCE

| | | | |
|---|---|---|---|
| Acetic acid 10% | Alkalis | Ammonium hydroxide 25% | Brine water |
| Castor oil | Copper sulfate | Crude oil | Diesel fuel |
| Ethanol | Ethylene glycol | Fatty acids | Fresh / non-potable water |
| Gasoline | Hydrochloric acid 20% | Mineral spirits | Potassium hydroxide 50% |
| Sewage | Sodium chloride | Sodium hydroxide 50% | Sulfuric acid 75% |
| Wine | | | |

* Call or email for a complete chemical resistance list.

## 7. MIXING & THINNING

| Method | Mixing instructions |
|---|---|
| Mixing | Power mix Part A resin separately, then add Part B hardener and power mix. If using a thinner or additive, add and mix into Part A prior to adding the hardener. |

### Thinning

| | |
|---|---|
| **Sprayer** | Up to 6.5 oz/gal (5%) with acetone or xylene |
| **Brush** | Up to 16 oz/gal (12%) with acetone or xylene |
| **Roller** | Up to 16 oz/gal (12%) with acetone or xylene |

* Use of thinners other than those supplied or recommended by Dynesic may adversely affect product performance and void the product warranty, whether expressed or implied.

### Pot life

| Temperature | Pot life |
|---|---|
| 41 °F (5 °C) | 8 hours 20 minutes |
| 77 °F (25 °C) | 2 hours |
| 92 °F (33 °C) | 50 minutes |

* Do not keep the blended coating in the original container unless immediate use is planned — exothermic heat created during curing will considerably shorten the pot life. Pour the coating into a rolling tray or directly onto the surface, keeping the depth in the tray below 3/8 in.

## 8. APPLICATION GUIDELINES

The following are general equipment guidelines. Job site conditions may require modifications to achieve the desired results. Floor Base is a 100% solids coating and may require adjustments in spray technique; wet film thickness is easily and quickly achieved. The spray equipment below has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

### Airless spray — plural component

| | |
|---|---|
| **Tip size** | 0.025 – 0.029 reversible type |
| **Part A fluid line** | 1/2 in. ID |
| **Part B fluid line** | 3/8 in. ID |
| **Spray line** | 1/2 in. ID × 50 ft maximum |
| **Whip diameter / length** | 1/4 – 3/8 in. ID · 20 ft |
| **Power ratio pump** | 56:1 or greater |
| **Static mixer** | 2 × 1/2 in. ID × 12 in. length behind mixing valve |
| **Part A temperature** | 130 – 135 °F in reservoir tank |
| **Part B temperature** | 90 – 95 °F in reservoir tank |

### Airless spray — single leg or hot pot

| | |
|---|---|
| **Pump size** | 56:1 or greater |
| **Hose length / diameter** | 50 ft × 3/8 in. |
| **Whip length / diameter** | 10 ft × 1/4 in. |
| **Work life — 4 gallons at 90 °F (32 °C)** | No thinner: 25 minutes<br>3 – 5% thinner: 35 – 40 minutes |

* For single-leg and hot-pot application, Part A resin and Part B hardener should be heated individually to 75 – 85 °F before mixing so the product atomizes properly at the optimum viscosity. Mixed product should be sprayed within 20 minutes of mixing.

### Brush and roller

| | |
|---|---|
| **Brush** | Use a medium bristle brush. |
| **Roller** | Use a short-nap synthetic roller cover with a phenolic core. |

Be aware of working life when using brush or roller application.

## 9. CURE SCHEDULE & RE-COAT WINDOW

| Temperature | Minimum re-coat | Maximum re-coat |
|---|---|---|
| 50 °F (10 °C) | 8 hours | 14 days |
| 77 °F (25 °C) | 4 hours | 14 days |
| 140 °F (60 °C) | 1 hour | Not recommended |

## 10. PERFORMANCE DATA

| Test method | System | Result |
|---|---|---|
| ASTM D4541 — Adhesion | Dry blasted steel, 1 coat | > 2,500 psi |
| ASTM D4541 — Adhesion | Dry scuffed FBE, 1 coat | > 2,000 psi |
| ASTM D4541 — Adhesion | Blasted steel, 1 coat — wet 5 days, 70 °C water | > 2,500 psi |
| ASTM D4060 — Abrasion | Blasted steel, 1 coat — 1,000 cycles, CS17 wheel, 1,000 g load | 80 mg loss · 770 cycles per mil |
| ASTM C109 — Compressive strength | Blasted steel, 1 coat | 10,000 – 13,000 psi |
| ASTM D2240 — Hardness | Blasted steel, 1 coat | 83 – 90 Shore D |

## 11. PACKAGING, HANDLING & STORAGE

| | |
|---|---|
| **Shelf life** | 24 months at 75 °F (24 °C) in original unopened packaging under recommended storage conditions |
| **Shipping weight — 1 gallon kit** | 12 lb (5.45 kg) |
| **Shipping weight — 4 gallon kit** | 50 lb (22.73 kg) |
| **Shipping weight — 50 gallon drums** | Part A: 700 lb · Part B: 450 lb |
| **Storage temperature** | 40 – 110 °F (4 – 43 °C) |
| **Storage humidity** | 0 – 100% relative humidity |
| **Storage** | Store indoors. Not affected by excursions below the published storage temperatures, down to 10 °F, for no more than 14 days. |

## 12. CLEANUP & SAFETY

| | |
|---|---|
| **Cleanup** | Use MEK or acetone. In case of spillage, absorb and dispose of in accordance with applicable local regulations. |
| **Safety** | Read and follow all caution statements on this technical data sheet and on the Safety Data Sheet (SDS) for this product. Wear protective clothing and gloves. |

## 13. ABOUT DYNESIC TECHNOLOGIES

Dynesic produces exceptional chemically engineered coatings, adhesives and sealants offering premium corrosion protection, while being safe for the environment and safe and easy to apply. Dynesic Technologies can be found protecting steel, ductile and concrete substrates worldwide.

**www.dynesic.com · 972-692-0962**