

Perdure FE80

Flexible epoxy coating

DESCRIPTION

Perdure FE80 is an ultra-high solids, flexible urethane-modified epoxy used as a crack isolation membrane for interior use under various Duraamen Resinous Flooring Systems. It resists cracking caused by horizontal substrate movement, providing a crack-resistant, resilient, sound absorbent, waterproof, durable floor. When used in conjunction with most Duraamen Resinous Flooring Systems, Perdure FE80 offers stress-relieving properties for floor slabs that show movement or vibration. Perdure FE80 is also used to treat the surface of individual cracks and properly filled and covered contraction joints (sawcuts). Perdure FE80 is available in a wall grade formulation.

ADVANTAGES

- Crack Resistant – Flexibility Allows Horizontal Substrate Movement, Aids in Suppression of Reflective Cracking From Substrate
- Advanced Technology Maintains Flexibility in Cold Temperatures
- Increased Tensile and Bonding Strength Versus Epoxy-Only Membranes
- Higher Compressive Modulus Provides Greater Support for Heavy Point Loads Versus Softer Membranes
- Optional Scrim Cloth Reinforcement
- VOC < 25 g/L, Meets USGBC LEED Criteria and All VOC Regulations Including Los Angeles SCAQMD
- Low Odor for Use in Occupied Areas
- Ultimate Elongation of 140–150%
- Reduces Noise Created by Mechanical Vibrations
- Meets USDA Requirements

SUBSTRATE REQUIREMENTS

- Slabs on grade must have an efficient moisture vapor retarder.
- Excessive moisture in concrete requires moisture mitigation system.
- Substrate temperature must be a minimum of 50°F.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Do not apply to wet or damp surfaces.
- Do not use for filling isolation/expansion joints.

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in Duraamen Technical Bulletin #1. Work must be performed by trained or experienced contractors or maintenance personnel. The Duraamen Technical Service department is available to answer any questions.

MIXING & INSTALLATION

Mix one (1) part of Part A by volume with one (1) part of Part B by volume with a slow speed drill until liquids are completely blended. Pour mixed Perdure FE80 onto working area and spread with notched squeegee or trowel at a rate of 40 to 50 ft² per gallon to achieve 32–40 mils. For complete installation instructions, contact your Duraamen Representative or Duraamen Technical Service.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Material Safety Data for safety and health precautions.

COMPOSITION

Ultra-high solids flexible urethane-modified epoxy resin and amines.

COLOR SELECTION

Perdure FE80 is available in White. Custom colors may be available with lab approval and additional lead time.

INSTALLATION STEPS

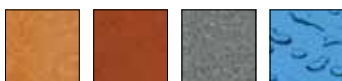
Mix Part A with Part B 1:1 (one-to-one) by volume with a slow speed drill until liquids are completely blended. Pour mixed Perdure FE80 onto working area and spread with notched squeegee or trowel at a rate of 50 to 55 ft² per gallon. For complete installation instructions, contact your Duraamen representative.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Material Safety Data for safety and health precautions.

COVERAGE

Perdure FE80 will yield approximately 32–40 mils when spread at 40–50 ft² per gallon. Perdure FE80 Wall Grade will yield approximately 8–10 mils per coat when spread at 160–200 ft² per gallon.



PERFORMANCE PROPERTIES

Tensile Strength ASTM D412	1.650 psi
Ultimate Elongation ASTM D412	140–150%
Adhesion (unprimed) ACI 503R, ASTM D7234	300+% concrete failure varies by concrete strength
Viscosity (mixed)	4800 cps
VOC Content ASTM D2369 (EPA Method 24)	< 25 g/L
Hardness Shore A ASTM D2240	70–80
Hardness Shore D ASTM D2240	60–65
Impact Resistance ASTM D2794	16 ft.lb.
Thermal Cycling ASTM C884	no cracking
Flammability ASTM D635	concrete surfaces.

CURE/DRY TIME

Working Life (spread on substrate)	25–30 minutes
Cure Time, Tack Free	10–12 hours @ 75° F
Recoat Time	12–48 hours @ 75° F
Full Set Time	48–72 hours
Full Cure & Maximum Performance	5–10 days

AVAILABILITY

Duraamen materials are available throughout the United States, Canada, and a number of other countries. Contact the Duraamen Representative in your area for details.

MAINTENANCE

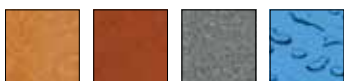
After completing the application of Perdure FE80 and the flooring system, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

TECHNICAL SERVICE

Duraamen Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. Duraamen Sales/Technical Representatives are available to assist you. Telephone **866.835.6595** or visit www.duraamen.com.

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