



Dymaflake System  
DX-1

*Technical Data Sheet*

# DYMAFLAKE™

## Decorative Vinyl Flake Flooring System

Dymaflake is a seamless, decorative epoxy flooring system that utilizes 100% solids epoxy technology. The system incorporates a decorative mosaic broadcast of vinyl flakes mixed with epoxy/urethane resins to build a monolithic, durable, and chemical resistant seamless floor. The monolithic nature of Dymaflake also offers the option to add seamless integral cove base to the system.

### GENERAL USES:

- Pharmaceutical Manufacturing
- Animal Research
- Laboratory Environments
- Hospital and Healthcare Facilities
- Cafeterias & Classrooms
- Veterinary Clinics/Hospitals
- Shower, Locker, & Restrooms
- Automotive Showrooms

### ADVANTAGES:

- Attractive Mosaic Patterns (custom blends available)
- VOC Compliant – LOW ODOR
- Chemical & Stain Resistant
- Seamless-No Microbial Growth
- Slip Resistant - Various Grades Available
- Low Maintenance, Durable Flooring System
- Anti-fracture and Waterproofing Membranes Available
- Installed exclusively by Durex Coverings, Inc Trained & Qualified Installers

### APPLICATION CONDITIONS:

- Do not apply materials when ambient (slab & air) temperatures are below 55°F or above 85°F.
- Substrate temperature must be at least 5°F above the dew point
- Concrete must not contain over 75% relative humidity
- Typically 28 days of concrete cure is required

### SYSTEM PERFORMANCE PROPERTIES:

Compressive Strength ASTM C-579	10,000 psi Minimum
Tensile Strength ASTM D-638	4,200 psi
Adhesive Strength MIL-D-26413	420 psi
Hardness ASTM D-2240	70-75 Shore D
Bond Strength to Concrete ACI COMM #403, Bulletin 59-43	300 psi
Flammability ASTM D-635	Self Extinguishing
Abrasion Resistance ASTM C-501	32 mg
Flexural Strength ASTM C-580	4,300 psi
Impact Resistance MIL-D-3134F 4.7.3	Withstands 15ft/ lbs without cracking, delamination, or chipping.

### EVALUATE YOUR ENVIRONMENT!

- Chemical Exposure?
- Slope to Drain?
- Heavy Point Loading?
- Non-Skid Surface?
- Short Shut-Down Window?

Durex can customize each product to treat any of the following conditions.

DUREX COVERINGS



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MOISTURE VAPOR EMISSIONS:

- Moisture vapor emissions in excess of 4.0 lbs. per 1,000 square feet per 24 hours may cause delamination, blistering, or discoloration of flooring system
- Moisture Vapor Emission can be detected with a combination of three methods:
  - Tramax Concrete Moisture Detection Device ASTM F-1869 – Readings must be 4.2% or less
  - Relative Humidity Test – ASTM F-2170 Readings should be below 75%
  - Calcium Chloride Test – ASTM F-1869 Readings should be between 3.0 lbs.- 4.0 lbs per 1,000 square feet
- If Moisture Vapor Emissions are present, Durex can provide moisture vapor emission mitigation systems to correct the level of MVE.

CONTACT:

- Durex Coverings, Inc. provides services and consultations on material selection, specifications, troubleshooting, and other information on the proper repair and protection of concrete surfaces.
- Durex has offices in Maryland and Pennsylvania, and can be reached at 800-722-1186 or through email at techservice@durexcoversings.com

LIMITATIONS:

- Temperature-Product must be installed at a minimum temperature of 55° F
- Not recommended for areas that receive severe thermal shock
- If sub-surface cracks after system is installed, finished flooring may reflect cracks

HAZARDS:

- Amine Blush - Introducing water or moisture during or even directly after the curing process may cause hazing, whitening, or blushing of the finish coats.
- Surface Preparation – Apply Durex products to clean, sound concrete that is free of oil, grease, dirt, existing failing coatings, sealers, curing compounds, of any other contaminants. All laitance or weak concrete surfaces should be removed by mechanical means, ie. Shot-blasting, diamond grinding, scarifying, etc. Concrete should be “profiled” before coatings are applied.
- Joints – All construction and expansion joints should be addressed prior to application of seamless floor

MAINTENANCE:

- Durex systems are easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

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