



Impax System  
DX-1

Technical Data Sheet

# IMPAX FLOOR HD™

## ¼” Heavy Duty Industrial Flooring System

Impax Floor HD is a heavy duty seamless industrial epoxy mortar system. This system incorporates a trowel applied mortar mixture of graded silica aggregate and epoxy resins to build a monolithic, heavy duty, and chemical resistant seamless floor. The monolithic nature of Impax Floor HD also offers the option to add seamless integral cove base to the system.

### GENERAL USES:

- Heavy Duty Manufacturing
- Pharmaceutical Manufacturing
- Automotive Facilities, Bays, & Tool/Parts Rooms
- Hospital and Healthcare Facilities
- Veterinary Clinics/Hospitals
- Shower, Locker, & Restrooms
- Machine Shops
- Food, Beverage, & Produce Facilities

### ADVANTAGES:

- High Impact Resistance
- 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	14,000 psi Minimum
Tensile Strength ASTM D-638	4,200 psi
Hardness ASTM D-2240	80-84 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	50 mg
Water Absorption ASTM C-501	Nil
Impact Resistance MIL-D-3134F 4.7.3	Withstands 16ft/ lbs without cracking, delaminating, 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.

**Durex Coverings, Inc. ("Durex")** warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of **Durex**. If any product fails to meet this warranty, the liability of **Durex** will be limited to replacement of any non-conforming material if notice of such non-conformity is given to **Durex** within (1) one year of delivery of materials. **Durex** may in its discretion refund the price received by **Durex** in lieu of replacing the material. No customer, distributor, or representative of **Durex** is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of **Durex**. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. **Durex** reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. **DUREX'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DUREX SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**