Concrete Coatings Solutions

Horizontal, Vertical, Interior & Exterior Applications

Solvent-Free – True Water-Based
Virtually Odorless – Low VOC
Exceptional Performance
Aliphatic Polyester Polyurethanes
**TECHNOLOGY OVERVIEW**

Aliphatic polyester polyurethanes that use water as the “solvent”, without sacrificing performance characteristics.

Suitable for virtually any vertical or horizontal surface either interior or exterior with inherent chemical and abrasion resistance, hardness, and UV protection.

**WHY COAT CONCRETE?**

- Protect from wear
- Resist chemical attacks
- Increase practicality
- Fix shortcomings of existing concrete
- Aesthetics
- Increase safety
- Prevent spalling
- Improve property value

**ANTI-GRAFFITI**

Spray paint, sharpies & other products are easily removed without damaging the coating.

**ADHESION**

Products have perfect adhesion direct to concrete and do not require a primer. The products are water-based, without the use of a solvent, and do not react to the alkalinity. The products have been successfully used on green concrete.

**BREATHTABLE**

Products have a 2.43 perm rating; which is a Class III permeable vapor retarder. Products act as a water barrier not a vapor barrier; allows water vapors to migrated through the coating into the air.

**PERFORMANCE**

Excellent properties, including:
- Tensile Adhesion: 2,500 psi
- Pencil Hardness: 4H
- Tabor Abrasion: 10-20 mg loss
- Impact Resistance: 160 in. lbs.
- Flexibility: > 32% elongation
EXTENSIVE CUSTOMER HISTORY & APPLICATIONS

High profile customers from theme parks, education, healthcare, airports, retail, sports arenas and much more.

SPACE MOUNTAIN – DISNEY WORLD
Orlando, FL
Flx Gloss Orange w/GripPro
One coat was applied direct to the concrete because Disney wanted to provide increased slip resistance.

SAN DIEGO ZOO
San Diego, CA
Flex Clear Gloss
The product was applied over an acid stain in the cafeteria and gift shop. The zoo wanted a coating to hold up to daily traffic.

GUARANTEED RATE FIELD – WHITE SOX
Chicago, IL
Flex Clear Satin
The exterior split face block was coated to provide anti-graffiti characteristics and enhance the color of the split face block.

ENVIRONMENTALLY FRIENDLY PRODUCTS

Low to zero VOCs (all products <20 g/l)
“Super Compliant” by South Coast AQMD
Virtually odorless
Does not contain prop 65 chemicals (known to state of CA to cause cancer)

MULTIPLE FINISHING OPTIONS

Available in a high gloss (>85°), satin (~50°) or matte (~10°) finish
Comes in clear or any color

CHEMICAL RESISTANCE

Concrete is susceptible to chemical attack by a range of chemicals. Not only do acids eat into concrete but there are many benign chemicals, such as sugar, that react with concrete to completely break down the concrete’s integrity, causing catastrophic failure.

PREVENT SPALLING

Products do not react to the alkalinity of the concrete, which protects the reinforced steel. Lower alkalinity allows the reinforced steel to corrode creating stress in the concrete; which causes concrete to crack around the reinforced steel.

EASIER TO MAINTAIN

Without solvents, dirt and other materials cannot stick to the coatings; which makes it easier to clean. Keeps floor from accumulating dust which can contaminate food, beverages, pharmaceutical supplies, artwork and more.
### Product Details

<table>
<thead>
<tr>
<th></th>
<th>FC High Gloss</th>
<th>FC Satin / Matte</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Product</strong></td>
<td>Aliphatic Polyester Polyurethane</td>
<td>Aliphatic Polyester Polyurethane</td>
</tr>
<tr>
<td><strong>Number of Components</strong></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Dry Time (Hrs.)</strong></td>
<td>6-8</td>
<td>5-6</td>
</tr>
<tr>
<td><strong>Dry Time with Accelerator (Hrs.)</strong></td>
<td>3-4</td>
<td>2-3</td>
</tr>
<tr>
<td><strong>Pot Life (Minutes)</strong></td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td><strong>Gloss Level (60° Meter)</strong></td>
<td>85°</td>
<td>Satin 50° Matte 10°</td>
</tr>
<tr>
<td><strong>Clear or Color</strong></td>
<td>Both</td>
<td>Both</td>
</tr>
<tr>
<td><strong>Horizontal Coverage (Sq. Ft.)</strong></td>
<td>350-400</td>
<td>350-400</td>
</tr>
<tr>
<td><strong>Vertical Coverage (Sq. Ft.)</strong></td>
<td>250-300</td>
<td>250-300</td>
</tr>
<tr>
<td><strong>VOCs (g/l)</strong></td>
<td>&lt; 5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td><strong>Solvents</strong></td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Primer Needed</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Abrasion Resistance (mg loss)</strong></td>
<td>10-20</td>
<td>33</td>
</tr>
<tr>
<td><strong>Hardness</strong></td>
<td>4H</td>
<td>3H</td>
</tr>
<tr>
<td><strong>Impact Resistance</strong></td>
<td>160 in lbs.</td>
<td>160 in lbs.</td>
</tr>
<tr>
<td><strong>Flexibility</strong></td>
<td>&gt;32%</td>
<td>&gt;32%</td>
</tr>
<tr>
<td><strong>Adhesion (1)</strong></td>
<td>5B (100%)</td>
<td>5B (100%)</td>
</tr>
<tr>
<td><strong>Tensile Adhesion (psi)</strong></td>
<td>2,473-2,609 (1)</td>
<td>1,600-1,800 (1)</td>
</tr>
<tr>
<td><strong>Flame Spread</strong></td>
<td>10 Class A Type I</td>
<td>10 Class A Type I</td>
</tr>
<tr>
<td><strong>Smoke Developed</strong></td>
<td>5 Class A Type I</td>
<td>5 Class A Type I</td>
</tr>
</tbody>
</table>

(1) These tests were completed with the coating applied direct to steel, no primer.
(2) This test was completed on concrete and the break occurred in the concrete; the coating itself did not fail.

### Significant Cost Savings

- Single Coat vs. 3+ Coat Systems
- No Primers – Direct to Concrete
- 100,000 sq. ft. example:

![Cost Savings Chart]

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