Bridge & Wall Coatings
Products to Cure, Protect and Beautify Concrete

Our Knowledge is Concrete & Specialty Coatings

SM
ChemMasters’ coatings protect many of the nation’s most recognizable and strategically important structures. From military defense to transportation, infrastructure to commercial buildings…ChemMasters’ coatings protect, beautify and prolong the life of concrete.

Wherever concrete is exposed to the elements, ChemMasters has a coating to suit your needs.

- **Departments of Transportation (DOT) & Municipal Engineering**
  - Bridges
  - Sound Wall Barriers

- **Commercial Buildings**
  - Building Exteriors
  - Retaining Walls

- **Residential**
  - Stucco Exteriors
  - Exposed Block Foundations
  - Retaining Walls

ChemMasters offers a full range of chemistries to meet the demanding needs of harsh environments and the aesthetic requirements of any home or building owner. ChemMasters architectural coatings are the culmination of cutting edge development in materials, formulations, and performance. And they’re true to our philosophy of manufacturing world-class products to protect and beautify concrete.
Epoxy/urethane coating systems are the preferred means of protecting high value concrete structures with extended design lives. As a system created expressly for concrete, their adhesion, UV stability, and waterproofing capabilities are proven technologies for long-term (15+ year) protection.

Safe-Cure® & Seal EPX
A low V.O.C., two-component, water-based epoxy curing and sealing compound for concrete. It is also suitable for use as an epoxy primer or coating for cured concrete. Available in either clear or pigmented formulations. For exterior applications without a topcoat, a special ultraviolet (UV) resistant formulation is available upon request. Meets ASTM C1315.

Duraguard™ 310 CRU
A two component, chemical resistant aliphatic polyurethane coating. It may be used as a topcoat over epoxy and epoxy novalac systems to improve chemical, ultraviolet light and graffiti resistance. Available in clear or pigmented versions.

Green-Thane™ 310 WB
An environmentally friendly two component, waterborne aliphatic, chemical resistant polyurethane coating. Used as a topcoat over epoxy coatings to improve the chemical, UV, abrasion and graffiti resistance of the coating system. Available in clear or pigmented versions.

<table>
<thead>
<tr>
<th>Safe-Cure® &amp; Seal EPX</th>
<th>Cross-Linking</th>
<th>Dry Film Thickness</th>
<th>Percent Solids</th>
<th>Moisture Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoat Time</td>
<td>Tack free up to 72 hours (call ChemMasters for instructions past 72 hours)</td>
<td>2.5 mil clear 3.3 mil colors</td>
<td>31%</td>
<td>&lt; 0.40 g/cm² in 72 hours</td>
</tr>
<tr>
<td>Curing Efficiency</td>
<td>ASTM C1315, Type 1, Class B</td>
<td>Abrasion Resistance Tabor 1000g/1000 cycles/CS-17 Wheels</td>
<td>&lt; 0.5%</td>
<td>33.1 mg</td>
</tr>
<tr>
<td>Water/Salt Resistance NCHRP 244 Series II &amp; Series IV</td>
<td>86 – 92% Reduction</td>
<td>Abrasion Resistance Tabor 1000g/1000 cycles/CS-17 Wheels</td>
<td>33.1 mg</td>
<td></td>
</tr>
<tr>
<td>Abrasion &amp; Impact Resistance</td>
<td>Excellent</td>
<td>Shear Bond Strength–7 Days ASTM C 882</td>
<td>1,000 psi (21.4 MPa)</td>
<td></td>
</tr>
<tr>
<td>Tensile Bond Strength–7 Days Fresh Concrete Etched or Blasted</td>
<td>215-220 psi (1.4-1.5 MPa) 350-450 psi (2.4-3.1 MPa)</td>
<td>Gloss Retention</td>
<td>Excellent/Good</td>
<td></td>
</tr>
<tr>
<td>Color Retention</td>
<td>Moderate</td>
<td>Drying Time</td>
<td>&lt; 4 hours</td>
<td></td>
</tr>
<tr>
<td>Pot Life</td>
<td>30 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GreenThane™ 310 WB</th>
<th>Cross-Linking</th>
<th>Dry Film Thickness</th>
<th>Percent Solids</th>
<th>Moisture Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Absorption @ 50 Days</td>
<td>0.2 – 0.4%</td>
<td>4 mil @ 200 ft/gal</td>
<td>66 – 72%</td>
<td></td>
</tr>
<tr>
<td>Water/Salt Resistance NCHRP 244 Series II &amp; Series IV</td>
<td>86 – 92%</td>
<td>Water Absorption ASTM C 642 – 2 day/50 day</td>
<td>&lt; 0.5% / &lt; 2.0%</td>
<td></td>
</tr>
<tr>
<td>Salt Resistance ASTM B 117 73, 2,000 hrs</td>
<td>No Effect</td>
<td>QUV Weathering – 8,000 hrs ASTM D 4587</td>
<td>98% Gloss Retention 1∆E Shift</td>
<td></td>
</tr>
<tr>
<td>Efflorescence Resistance</td>
<td>Excellent</td>
<td>Deicer Scaling ASTM C 672</td>
<td>0% @ 100 cycles</td>
<td></td>
</tr>
<tr>
<td>Abrasion &amp; Impact Resistance</td>
<td>Excellent</td>
<td>Abrasion Resistance Tabor 1000g/1000 cycles/CS-17 Wheels</td>
<td>25 grams</td>
<td></td>
</tr>
<tr>
<td>Color Retention</td>
<td>Excellent/Superior</td>
<td>Adhesion</td>
<td>&gt; 150 psi</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>2,200 psi</td>
<td>Gloss Retention</td>
<td>Excellent/Superior</td>
<td></td>
</tr>
<tr>
<td>Durability</td>
<td>15+ Years</td>
<td>Percent Elongation</td>
<td>10 – 15%</td>
<td></td>
</tr>
<tr>
<td>Solvent Resistance 100 Double Rubs</td>
<td>No Effect</td>
<td>Pensil Hardness ASTM D 3363</td>
<td>&gt; 2H</td>
<td></td>
</tr>
</tbody>
</table>

Markets: DOT / Municipal – Bridge Parapets, Bridge Columns, Precast Spans, Bridge Substructure & Superstructure
ColorLastic™
A pigmented, waterproof coating for concrete and masonry. ColorLastic is produced with 100% elastomeric acrylic resins and formulated for superior aging characteristics. ColorLastic bridges hairline cracks, withstands substrate movement and accommodates rapid changes in temperature.

**USES**
- Coating for exterior or interior, above grade vertical and overhead concrete and masonry
- Functional, yet decorative, waterproof sealer for poured in place concrete, precast members, block, brick, plaster or stucco surfaces.
- Topcoat for ChemSeal or other cementitious coatings
- Provides a uniform matte color following repairs of deteriorated surfaces exposed to severe weathering

**ADVANTAGES**
- Exceptionally durable film resists wind driven rain, mold, mildew, and dirt
- Excellent elongation and recovery properties
- Optimum water vapor permeability eliminates cracking and peeling
- Withstands extremes in thermal cycling; maintains flexibility from season to season
- Ultraviolet (UV) light, stable, fade resistant
- Seals and waterproofs hairline cracks
- Extremely low V.O.C. content, water based for environmental impact compliance
- Available in nine architectural colors; special color matching available subject to minimum order and lead time requirements

**ColorLastic™**
100% Elastomeric Acrylic Coating
A pigmented, waterproof coating for concrete and masonry. ColorLastic is produced with 100% elastomeric acrylic resins and formulated for superior aging characteristics. ColorLastic bridges hairline cracks, withstands substrate movement and accommodates rapid changes in temperature.

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TextureDOT™ & TextureDOT™ Smooth
A heavy bodied, 100% acrylic emulsion, decorative, textured coating. It develops a tough, durable, water repellent film that is alkali, acid and mildew resistant. TextureDOT meets ASTM C1315 as an architectural cure & seal, and is available in both textured and smooth versions.

USES
- Interior or exterior, vertical and overhead concrete and masonry surfaces
- Pour and formed walls, block, brick, cement plaster, stucco, wall board, and sheet rock
- Sealing jersey and median barriers, sound barrier walls, bridge abutments, and retaining walls
- Decorative water repellent finish
- Textured finish hides defects in the substrate

ADVANTAGES
- Superior color stability under harsh ultraviolet light exposure
- Excellent hiding power minimizes minor surface imperfections and defects
- Resistant to stains, dirt, and atmospheric pollutants
- Provides uniformly colored, textured finish
- Exceptional moisture vapor transmission
- Will not crack or peel
- Expansion and contraction characteristics compatible with concrete and masonry surfaces
- Durable, outlasts standard paints 2:1
- Available in 9 standard colors or any federal color for DOT applications.

TextureDOT™

<table>
<thead>
<tr>
<th>Film Formation</th>
<th>Percent Solids</th>
<th>Curing Efficiency: Moisture Loss @ 72 hours</th>
<th>Water/Salt Resistance NCHRP 244, Series II &amp; IV</th>
<th>Weatherometer – 5,000 hours ASTM G 23</th>
<th>Impact Resistance ASTM D 2794</th>
<th>Adhesion – Blister Box Method, 2,000 hours</th>
<th>Dry Film Thickness</th>
<th>Salt Spray – 2,000 hours ASTM B 117</th>
<th>Freeze/Thaw Cycling – 300 Cycles, ASTM C 666</th>
<th>Deicer Scaling – 50 Cycles ASTM C 672</th>
<th>Mandrel Flexibility</th>
<th>Abrasion Resistance – 3,000 Liters Falling Sand, ASTM D 968</th>
<th>Durability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation/Coalescing 72 – 74%</td>
<td>0.20 kg/m²</td>
<td>21 days immersion, 6 months - slab</td>
<td>No Peeling or Delamination</td>
<td>24 in-lbs direct impact</td>
<td>No Blistering or Peeling</td>
<td>23 mil per coat @ 50 ft² per gallon</td>
<td>No Effect</td>
<td>Visual Rating – 0</td>
<td>98 Durability Factor</td>
<td>Visual Rating – 0</td>
<td>180° bend over 1” mandrel</td>
<td>No Peeling or Delamination</td>
<td>12+ Years</td>
</tr>
</tbody>
</table>

Markets: DOT / Municipal – Sound Wall Barriers, Jersey Barriers
Commercial – Building Exteriors, Masonry/Block Walls, Retaining Walls
Residential – Stucco, Exterior Above-Ground Foundations, Retaining Walls
100% Acrylic Coatings

ColorCoat™
A heavy bodied 100% acrylic emulsion decorative coating specifically formulated to withstand outdoor exposure on concrete, masonry, stucco or cement plaster. It develops a tough durable water repellent film that is UV-stable, high gloss, alkali, and acid resistant.

USES
- Exterior or interior, vertical and overhead, concrete and masonry
- Poured in place, formed walls, block, brick, or stucco
- Functional and decorative water repellent finish
- Provides a uniform matte color following repairs of deteriorated surfaces

ADVANTAGES
- Excellent adhesion and weathering properties
- Superior moisture vapor transmission through substrate reduces cracking and peeling
- Protects against airborne dirt and pollutants
- Non-yellowing and fade resistant
- Available in a wide variety of colors

<table>
<thead>
<tr>
<th>ColorCoat™</th>
<th>Salt Spray ASTM B 117 – 2,000 hours</th>
<th>No Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film Formation</td>
<td>Evaporation/Coalescence</td>
<td>Salt Spray ASTM B 117 – 2,000 hours</td>
</tr>
<tr>
<td>Water Absorption @ 50 Days</td>
<td>1 – 2%</td>
<td>Water Absorption ASTM C 642 – 2 day/50 day</td>
</tr>
<tr>
<td>Water/Salt Resistance NCHRP 244</td>
<td>75 – 80%</td>
<td>Freeze/Thaw Cycling – 300 Cycles ASTM C 686</td>
</tr>
<tr>
<td>Deicer Scaling – 50 Cycles ASTM C 672</td>
<td>Visual Rating – 0</td>
<td>Adhesion – Direct Tensile</td>
</tr>
<tr>
<td>Weatherometer ASTM G 26</td>
<td>5,000 hours, No Peeling</td>
<td>Gloss Retention</td>
</tr>
<tr>
<td>Adhesion - Blister Box Method</td>
<td>2,000 hours</td>
<td>Percent Elongation</td>
</tr>
<tr>
<td>Fading (Fade-O-Meter)</td>
<td>100 hours</td>
<td>1/8” Mandrel Flexibility</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>800 psi</td>
<td>0°F (-17°C) pass</td>
</tr>
<tr>
<td>Durability</td>
<td>10+ Years</td>
<td>-15°F (-26°C) pass</td>
</tr>
<tr>
<td>Moisture Vapor Transmission Rate ASTM D 1653</td>
<td>18 perms @ 6 mil dry film thickness</td>
<td>Fire Hazard ASTM E 84</td>
</tr>
<tr>
<td>Dry Film Thickness</td>
<td>12 – 14 mil (2 coats)</td>
<td></td>
</tr>
<tr>
<td>Percent Solids</td>
<td>58 – 62%</td>
<td></td>
</tr>
</tbody>
</table>

Markets: DOT / Municipal – Sound Wall Barriers, Bridge Parapets, Bridge Columns, Precast Spans, Bridge Substructure & Superstructure
Commercial – Building Exteriors, Masonry/Block Walls, Retaining Walls
Residential – Stucco, Exterior Above-Ground Foundations, Retaining Walls
**100% Siliconized Acrylic Stain**

**ColorCoat™ XL**
A heavy bodied 100% siliconized acrylic emulsion specifically formulated for superior water shedding characteristics when applied to exterior concrete, masonry, stucco or cement plaster. ColorCoat XL has exceptional penetration and adhesion, forming a tough, durable, water repellent film that is highly UV-stable, high gloss, alkali, acid, mildew resistant and contains an inhibitor to prevent mold and fungal growth.

**USES**
- Exterior or interior, vertical and overhead, concrete and masonry
- Poured in place, formed walls, block, brick or stucco
- Functional and decorative water repellent finish
- Provides a uniform matte color following repairs of deteriorated surfaces

**ADVANTAGES**
- Excellent penetration, adhesion and weathering properties
- Siliconized acrylic for enhanced water shedding characteristics
- Superior moisture vapor transmission through substrate reduces cracking and peeling
- Protects against airborne dirt and pollutants
- Non-yellowing and fade resistant
- Available in a wide variety of colors

**ColorCoat™ XL**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation/Coalescence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deicer Scaling 50 Cycles</td>
<td>Visual Rating – 0</td>
<td>Mass Loss – 0.0 lb/ft²</td>
</tr>
<tr>
<td>ASTM C 672 (Avg. 3 Samples)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deicer Scaling 100 Cycles</td>
<td>Visual Rating – 0.8</td>
<td>Mass Loss – 0.01 lb/ft²</td>
</tr>
<tr>
<td>ASTM C 672 (Avg. 3 Samples)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Durability</td>
<td>10+ Years</td>
<td></td>
</tr>
<tr>
<td>Moisture Vapor Transmission Rate</td>
<td>17.5 Perms</td>
<td>Average of 3 Samples</td>
</tr>
<tr>
<td>ASTM D 1653</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry Film Thickness</td>
<td>12 – 14 mil (2 coats)</td>
<td></td>
</tr>
<tr>
<td>Percent Solids</td>
<td>55 – 59%</td>
<td></td>
</tr>
<tr>
<td>ASTM G53-13, Cycle 1</td>
<td></td>
<td>Visual: Gray Scale</td>
</tr>
<tr>
<td>Twin Carbon Arc Weatherometer Exposure/2,500 Hours (Avg. 3 Samples)</td>
<td>Rating 4 to 5</td>
<td>Very slight color change / loss of gloss / surface spotting. No other detrimental effects. Adhesion: Rating 5 No peeling or removal</td>
</tr>
<tr>
<td>Gloss Retention</td>
<td>Very Good</td>
<td></td>
</tr>
<tr>
<td>Water Resistance</td>
<td>Very Good</td>
<td></td>
</tr>
<tr>
<td>AASHTO T 259 Resistance of Concrete to Chloride Ion Penetration</td>
<td>84.4% Reduction @ 0.625 to 0.50 inch depth</td>
<td></td>
</tr>
<tr>
<td>AASHTO T 260 Sampling &amp; Testing for Chloride Ion in Concrete &amp; Concrete Raw Materials</td>
<td>89.2% Reduction @ 0.50 to 1.0 inch depth</td>
<td></td>
</tr>
</tbody>
</table>

**Markets:**
- DOT / Municipal – Sound Wall Barriers, Bridge Parapets, Bridge Columns, Precast Spans, Bridge Substructure & Superstructure
- Commercial – Building Exteriors, Masonry/Block Walls, Retaining Walls
- Residential – Stucco, Exterior Above-Ground Foundations, Retaining Walls
Graffiti Stopper™
A two component polyester urethane developed specifically to protect surfaces from graffiti. Once applied to most surfaces, Graffiti Stopper will form a durable coating to reduce the adhesion of most coatings, paints and inks to the surface. Paints will typically bead on the surface and make the development of letters or designs difficult. Once dried on the surface, paints or inks can be removed without the use of harsh chemicals. Graffiti can be removed with Graffiti Eraser™ from ChemMasters and a pressure washing without leaving a shadow on the surface or damaging the coating. Available in high gloss, satin, or flat finishes.

Graffiti Eraser removes graffiti from substrates coated with Graffiti Stopper.

Watch our “How To” video to learn more about Graffiti Stopper and Graffiti Eraser.

Graffiti Seal™
A single component, water based, sacrificial coating system for easy and environmentally safe removal of graffiti.

USES
• Exterior concrete, masonry, metal or galvanized metals
• Traffic signs, rail cars, sound barriers, bridges, bathroom stalls, schools or other areas subject to attack by graffiti

ADVANTAGES
• 0% V.O.C. content, biodegradable, odorless
• Breathable for excellent moisture vapor transmission
• Easy to apply and remove
• Will not change the appearance of the substrate
• Durable and non-yellowing

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