# SELECTION & SPECIFICATION DATA

<table>
<thead>
<tr>
<th>Generic Type</th>
<th>Polyamide Epoxy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Ceramic filled epoxy engineered to provide abrasion resistance along with good chemical resistance to organic acids, alkali and salts. Known for its forgiving application characteristics in adverse and varied conditions.</td>
</tr>
</tbody>
</table>

**Features**
- 100% Solids, No VOCs
- Excellent immersion resistance
- Less than 24mg loss on ASTM D 4060 Test
- Long term wear protection
- Excellent abrasion resistance

**Recommended Uses**
Protection where severe abrasion resistance is required on steel or concrete surfaces in applications such as - dry product chutes, hoppers, and silos.

**Color/Part #**
Gray (SP1510)

**Finish**
Gloss

**Primer**
Self-priming

**Dry Film Thickness**
8 – 12 mils per coat

**Solids Content**
By Volume 100% +/- 1%

**Theoretical Coverage Rate**
- 1604 ft² at 1 mil
- 106 ft² at 15 mils
- 64 ft² at 25 mils

**Dry Temp. Resistance**
Continuous: 220°F (104°C)
Non-Continuous: 250°F (121°C)

**Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.**

**Under Insulation Resistance**
Continuous: 175°F (79°C)

---

# MIXING & THINNING

**Mixing**
Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

**Thinning**
- Spray: Up to 6.5 oz/gal (5%) w/ TH1710
- Brush: Up to 16 oz/gal (12%) w/ TH1710
- Roller: Up to 16 oz/gal (12%) w/ TH1710

Use of thinners other than those supplied or recommended by ErgonArmor may adversely affect product performance and void product warranty, whether expressed or implied.

**Ratio**
3:1 Ratio (A to B) by Volume

**Pot Life**
- 8 hours 20 minutes at 5°C (41°F)
- 2 hours at 25°C (77°F)
- 50 minutes at 33°C (92°F)

Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic heat created during the curing process will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

# SUBSTRATES & SURFACE PREPARATION

**Concrete or CMU**
Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing. Mortar joints should be cured a min of 15 days. Prime with Novocoat SC100 Concrete Primer

**Previously Painted Surfaces**
Consult with ErgonArmor Technical Service Department

# APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

## Spray Application (General)
This is a 100% solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

**Airless Spray Plural Component**
- **Tip Size:** .025 – .029 reversible type
- Diameter of Part A Fluid Line: 1/2" ID
- Diameter of Part B Fluid Line: 3/8" ID
- Spray Line: 1/2" ID x 50 feet maximum
- Diameter of Whip: 1/4 – 3/8" ID
- Length of Whip: 20 feet
- Power Ratio Pump: 56:1 or greater
- Static Mixer: 2 x 1/2" ID x 12" in length behind mixing valve
- Part A Temperature: 130 – 135°F in reservoir tank
- Part B Temperature: 90 – 95°F in reservoir tank
Airless Spray
Single Leg or Hot Pot

Pump Size: 56:1 or greater
Hose Length/Diameter: 50 ft x 3/8”
Whip Length/Diameter: 10 ft x 1/4”
Work Life, 4 gallons at 32°C (90°F):
No Thinner: 35 minutes
3 – 5% Thinner: 38 – 45 minutes

Part A resin and Part B hardener should be heated individually to 75° – 85°F before mixing so product will atomize properly in delivering paint to the substrate. Mixed product should be sprayed within 20 minutes after mixing.

Brush & Roller
(General)

Brush/Roller Application
This material may be applied with brush or roller. Be aware of working life when using brush or roller application.

Brush
Use a medium bristle brush.

Roller
Use a short-nap synthetic roller cover with phenolic core.

CLEANUP & SAFETY

Cleanup
Use MEK or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety
Read and follow all caution statements on this product data sheet and on the MSDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation
When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. User should test and monitor exposure levels to insure all personnel are below guidelines.

PACKAGING, HANDLING & STORAGE

Shelf Life
Part A: 12 months at 75°F (24°C)
Part B: 12 months at 75°F (24°C)
*When kept at recommended storage conditions and in original unopened containers.

Shipping Weight
(Approximate)
1 Gallon Kit: 13 lbs (6 kg)

Storage Temperature & Humidity
40° – 110°F (4° – 43°C)
0 – 100% Relative Humidity

PERFORMANCE DATA

<table>
<thead>
<tr>
<th>TEST METHOD</th>
<th>SYSTEM</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D-4541 Dry</td>
<td>Blasted Steel 1 ct. SP1510</td>
<td>&gt;2,500 psi</td>
</tr>
<tr>
<td>ASTM D-4541 Wet 5 days 70°C water</td>
<td>Blasted Steel 1 ct. SP1510</td>
<td>&gt;2,500 psi</td>
</tr>
<tr>
<td>ASTM D 4060 Abrasion</td>
<td>Blasted Steel 1 ct. SP1510</td>
<td>24 mg. loss after 1000 cycles, CS17 wheel 1000 gm. load</td>
</tr>
<tr>
<td>ASTM C-109 Compressive Strength</td>
<td>Blasted Steel 1 ct. SP1510</td>
<td>10,000 – 13,000 psi</td>
</tr>
<tr>
<td>ASTM D-2240 Hardness</td>
<td>Blasted Steel 1 ct. SP1510</td>
<td>83 – 90 Shore</td>
</tr>
</tbody>
</table>

Meets the performance requirements of AWWA C210

CURE SCHEDULE & RE-COAT WINDOW

<table>
<thead>
<tr>
<th>TEMPERATURE</th>
<th>MINIMUM RE-COAT</th>
<th>MAXIMUM RE-COAT</th>
<th>RETURN TO SERVICE (AQUEOUS/HYDROCARBON IMMERSION)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10°C (50°F)</td>
<td>8 hours</td>
<td>14 days</td>
<td>7 days</td>
</tr>
<tr>
<td>25°C (77°F)</td>
<td>4 hours</td>
<td>14 days</td>
<td>72 hours</td>
</tr>
<tr>
<td>60°C (140°F)</td>
<td>1 hour</td>
<td>Not Recommended</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

SAFETY
Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

Division of Ergon Asphalt & Emulsions, Inc.
P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 877-98ARMOR | ergonarmor.com