**PRODUCT INFORMATION**

**PRODUCT DESCRIPTION**

**ARMORSEAL® 700HS HIGH SOLIDS WATER BASED EPOXY FLOOR COATING** is a 2 component, low VOC, epoxy floor finish/coating designed to provide an attractive, uniform appearance in industrial environments. Formulated for use in medium to heavy traffic conditions. Exceptional chemical resistance, abrasion resistance, and excellent gloss retention.

- Suitable for use in USDA inspected facilities

**RECOMMENDED USES**

- As a high build, low odor epoxy floor coating
- For industrial, commercial, and marine applications
- Light assembly and production areas
- Hospitals, Clean Rooms, Boiler Rooms
- Laboratories
- Industrial/Commercial Office Areas

**PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Clear, Haze Gray, Sandstone, Tile Red, White</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>96% ± 2%, mixed</td>
</tr>
<tr>
<td>VOC:</td>
<td>&lt;120 g/L; &lt;1.0 lb/gal, mixed</td>
</tr>
<tr>
<td>Mix Ratio:</td>
<td>2 components, premeasured 3:1 by volume</td>
</tr>
</tbody>
</table>

**RECOMMENDED SPREADING RATE PER COAT**

| Wet mils: | 7.0 - 8.0 |
| Dry mils: | 6.5 - 7.5 |
| Coverage: | 200 - 230 sq ft/gal |

**DRYING SCHEDULE @ 7.0 MILS WET @ 50% RH**

- **@ 72°F**
  - To touch: 6 - 8 hours
  - To recoat:
    - Minimum: 8 hours
    - Maximum: 48 hours
  - To cure: 7 days
  - Light foot traffic: 24 hours

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

| POT LIFE: | 40 minutes @ 72°F, 50% RH |
| SWEAT-IN-TIME: | None required |
| SHELF LIFE: | 12 months, unopened, at 72°F |
| FLASH POINT: | 200°F, PMCC, mixed |
| REDUCER: | Not recommended |
| CLEAN UP: | Reducer #54, R7K54 do not use water |

**PHYSICAL PROPERTIES**

- Abrasion resistant
- Adhesion: >360 psi
- Chemical resistant
- Moisture resistant
- Solvent resistant
- Dry heat resistance: 180°F
- Viscosity: 2400 cps
- Pencil Hardness: 6H
**PRODUCT INFORMATION**

**RECOMMENDED SYSTEMS**

<table>
<thead>
<tr>
<th>Concrete/Masonry:</th>
<th>Surface Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ct. ArmorSeal Water Based Epoxy Primer Clear @ 2.0 - 3.0 mils dft</td>
<td>Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.</td>
</tr>
<tr>
<td>1 ct. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft</td>
<td>Refer to Application Bulletin for detailed surface preparation information.</td>
</tr>
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**Painted Surfaces in Sound Condition:**

<table>
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<tr>
<th>1 ct. ArmorSeal Water Based Epoxy Primer Clear @ 2.0 - 3.0 mils dft</th>
<th>Minimum recommended surface preparation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ct. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft</td>
<td>Concrete &amp; Masonry: SSPC-SP13/NACE 6</td>
</tr>
<tr>
<td>Wood: 1-2 cts. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft/ct</td>
<td>Wood: Clean, smooth, dust free</td>
</tr>
</tbody>
</table>

**TINTING**

Do not tint.

**APPLICATION CONDITIONS**

<table>
<thead>
<tr>
<th>Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 5°F above dew point</th>
<th>Relative humidity: 90% maximum, below 80% for best results</th>
</tr>
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<tbody>
<tr>
<td>Refer to product Application Bulletin for detailed application information.</td>
<td></td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

| Packaging: 1 gallon kits and 5 gallon kits | Weight per gallon: 11.2 ± 0.2 lb mixed, may vary by color |

**SAFETY PRECAUTIONS**

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

The systems listed above are representative of the products use, other systems may be appropriate.
**SURFACE PREPARATION**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

**Poured Concrete**

**New**

For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.

**Old**

Surface preparation is done in much the same manner as new concrete, however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, ArmorSeal 5020 Floor Resurfacer is recommended to patch and resurface damaged concrete.

Fill all cracks, voids and bugholes with ArmorSeal Crack Filler.

**Always follow the ASTM methods listed below:**

- ASTM D4258 Standard Practice for Cleaning Concrete.
- ASTM D4259 Standard Practice for Abrading Concrete.
- ASTM D4260 Standard Practice for Etching Concrete.
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete

**Wood**

Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

**Previously Painted Surfaces**

If in sound condition, clean the surface of all foreign material. Smooth, hard, or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling, clean surface to sound substrate and treat as a new surface as above.

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<td><strong>RELATIVE HUMIDITY</strong></td>
<td>90% maximum, below 80% for best results</td>
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<tr>
<th><strong>APPLICATION EQUIPMENT</strong></th>
<th><strong>REDUCER</strong></th>
<th>Not recommended</th>
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<tr>
<td><strong>CLEAN UP</strong></td>
<td>Reducer #54, R7K54 do not use water</td>
<td></td>
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<tr>
<td><strong>BRUSH</strong></td>
<td>Nylon/Polyester or Natural Bristle</td>
<td></td>
</tr>
<tr>
<td><strong>ROLLER</strong></td>
<td>1/4&quot;-3/8&quot; woven with phenolic core</td>
<td></td>
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If specific application equipment is listed above, equivalent equipment may be substituted.
### Application Bulletin

**Application Procedures**

- **Surface preparation must be completed as indicated.**
- **Mixing Instructions:**
  - To mix 1 gallon units: use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Pre-mix each component separately. Pour hardener contents into slack-filled resin can and mix for 2 to 3 minutes until material is thoroughly blended and emulsified. To mix 5 gallon units: use same procedure as mixing 1 gallon units except a larger blade (Jiffy Model ES or equal) is required.
  - Working out of a paint pan or bucket with grid, apply material to surface using 1/4” - 3/8” nap roller cover. Product can be top-coated in 8 hours @ 72°F.
  - **Apply paint at the recommended film thickness and spreading rate as indicated below:**

**Recommended Spreading Rate per coat:**
- Wet mils: 7.0 - 8.0
- Dry mils: 6.5 - 7.5
- Coverage: 200 - 230 sq ft/gal

**Drying Schedule @ 7.0 mils wet @ 50% RH:**
- To touch: 6 - 8 hours
- To recoat:
  - minimum: 8 hours
  - maximum: 48 hours
- To cure: 7 days
- Light foot traffic: 24 hours

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

**Pot Life:**
- 40 minutes @ 72°F, 50% RH

**Sweat-in-time:**
- None required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

**Clean Up Instructions**
- Clean spills and spatters immediately with Reducer #54, R7K54.
- Clean tools immediately after use with Reducer #54, R7K54.
- Follow manufacturer's safety recommendations when using any solvent.

**Performance Tips**

- **Stripe coat all crevices, welds and sharp angles to prevent early failure in these areas.**
- Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.
- No reduction of material is recommended as it can affect film build, appearance, and adhesion.
- Do not apply the material beyond recommended pot life.
- Do not mix previously catalyzed material with new.
- Anti-slip additives, such as H&C SharkGrip®, may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.
- Refer to Product Information sheet for additional performance characteristics and properties.

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