Aircraft Hangar Floor System (AHFS) is a specially formulated epoxy and polyurethane coating system. It forms a tough, UV-stable, abrasion-resistant flooring system specifically for use in aircraft hangars.

Yield
- **Primer:** 250 – 300 ft²/gallon (6.25 – 7.5 m²/L)
- **Base coat:** 80 – 90 ft²/gallon (2 – 2.25 m²/L)
- **First topcoat:** 160 – 220 ft²/gallon (4 – 5.5 m²/L)
- **Second topcoat:** 160 – 220 ft²/gallon (4 – 5.5 m²/L)

Coverage rates are approximate. Coverage rates will vary with the desired texture and the porosity of the concrete.

Packaging
- 1 gallon (3.79 L) cans
- 5 gallon (18.95 L) pails
- 55 gallon (208 L) drums on special order

Color
AHFS is available in white and 12 standard colors (see the BASF Color Selector Guide). Custom colors are subject to minimum quantities, increased manufacturing lead-time, and premium pricing. Contact BASF for further information. Also available in a matte finish (with Selby™ extended-wear additive).

Shelf Life
- Epoxy base coats: 2 years when properly stored
- Polyurethane topcoats: 1 year when properly stored

Storage
Store and transport in unopened containers in a clean, dry area. Protect from freezing.

Where to Use
- **APPLICATION**
- Where resistance to aircraft fuels, hydraulic fluids, and rubber tires is required

How to Apply
Selby™ systems are installed by approved contracting firms. Selby™ is a globally branded product line with industry synergies around the world.

The following is only a summary of the installation techniques used by Selby™ approved contractors.

Mixing
<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>COMPONENTS</th>
<th>MIX RATIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer</td>
<td>A750 / B725</td>
<td>2 to 1</td>
</tr>
<tr>
<td>Base coat</td>
<td>A755 / B728 / silica flour</td>
<td>2 to 1</td>
</tr>
<tr>
<td>Topcoats</td>
<td>N300 CR Part A / N300 CR Part B</td>
<td>3 to 1</td>
</tr>
</tbody>
</table>

Features
- High-solids system
- Excellent abrasion resistance
- Chemical and stain resistant
- Glossy finish

Benefits
- VOC Compliant
- Ideal for wheeled traffic
- For easy maintenance
- High light reflectivity; increased visibility for a safer work environment

Surface Preparation
1. Floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263.
2. Repair concrete as necessary.
3. Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
4. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer’s instructions.
5. Mechanical surface profiling is the method of surface preparation for both new and existing floors. Mechanically profile the floor to CSP 3 (approximating medium-grit sandpaper) as described by the International Concrete Repair Institute. Do not use acid etching for surface preparation. Do not use any method that could fracture the concrete.
6. Apply a 5 by 5 ft (1.52 by 1.52 m) test in an inconspicuous area that meets the owner’s expectations for appearance, slip resistance, and performance.

Resinous Flooring
9 09 67 23

Epoxy / polyurethane flooring system for aircraft hangars

Features
- High-solids system
- Excellent abrasion resistance
- Chemical and stain resistant
- Glossy finish

Benefits
- VOC Compliant
- Ideal for wheeled traffic
- For easy maintenance
- High light reflectivity; increased visibility for a safer work environment
Technical Data

Composition
Specially formulated products consisting of epoxy primer and base coats and polyurethane topcoats.

Test Data

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion, pli</td>
<td>&gt; 30</td>
<td>ASTM D 903</td>
</tr>
<tr>
<td>Hardness</td>
<td>H pencil hardness</td>
<td>ASTM D 3363</td>
</tr>
<tr>
<td>Salt spray, after</td>
<td>No effect</td>
<td>ASTM B 117</td>
</tr>
<tr>
<td>1,000 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accelerated weathering,</td>
<td>No effect</td>
<td>ASTM D 822</td>
</tr>
<tr>
<td>after 2,000 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moisture vapor, perm</td>
<td>0.01</td>
<td>ASTM E 96</td>
</tr>
<tr>
<td>inches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td></td>
<td>ASTM D 2047</td>
</tr>
<tr>
<td>Dry</td>
<td>0.74</td>
<td></td>
</tr>
<tr>
<td>Wet</td>
<td>0.73</td>
<td></td>
</tr>
<tr>
<td>Taber abrasion, mg loss</td>
<td>0.038</td>
<td>ASTM D 4060</td>
</tr>
<tr>
<td>1,000 cycles, CS-17 wheel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C). Properties listed represent the complete system. For properties of individual coatings, refer to the appropriate technical data sheet.

Chemical Resistance

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the Selby™ Chemical Resistance Guideline.

2. Properly mix each component separately before mixing together to ensure uniform consistency.
3. Combine Parts A and B in a suitably sized container. Use the proper ratios of A and B; scrape the sides of the containers to ensure a complete reaction.
4. Mix properly for 3 minutes with a slow-speed drill and Jiffy-style mixing paddle at 350 rpms. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

Priming
1. Apply the mixed primer at 250 – 300 ft²/gallon (6.25 – 7.5 m²/L) at 5 – 6 wet mils WFT. Allow to cure.

Application
1. Add 1/3 gallon of 200-mesh silica flour to each batch of mixed Part A and B (1 gallon of Part A and 1/2 gallon of Part B). Apply at a rate of 80 – 90 ft²/batch at 18 – 20 mils WFT. Allow to cure.
2. Apply the mixed N300 CR topcoat at 160 – 220 ft²/gallon (4 – 5.5 m²/L) at 8 mils WFT. Allow to cure.
3. Apply a second topcoat, if required. The floor can be opened to traffic in 24 hours.

Drying Times
Primer: 12 – 24 hours
Base coat: 12 – 24 hours
Polyurethane topcoat: 18 – 24 hours
Drying times assume 70° F (21° C) and 50% relative humidity.

Maintenance
Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt.

For Best Performance
- An effective moisture vapor barrier is required for substrates on or below grade; if not present, contact your BASF representative for options.
- AHFS should be installed at a substrate temperature from 50° to 85° F (10 to 30° C).
- Do not expose Selby™ AHFS to any chemicals until fully cured (7 days).
- The architect and owner should address joint details with the flooring contractor before the job starts.
- BASF representatives and flooring specialists are available to assist you in the selection of the proper flooring system. Call 1-800-243-6739 for in-house and field technical assistance.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.
- Use pads under vehicle wheels to reduce the possibility of tire-plasticizer migration.
- Tailor application techniques and coverage rates to meet jobsite conditions.
- Precondition this product to 70° F (21° C) for 24 hours before using.
- Do not exceed the recommended recoat window of 24 hours; if in doubt, contact your BASF flooring specialist.
Health and Safety
Read, understand and follow Material Safety Data Sheets and product labels for all components of this flooring system prior to use. The MSDS can be obtained by searching for them on www.BuildingSystems.BASF.com, e-mailing your request to basfbescst@basf.com or calling 800/433-9517. Use only as directed.
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