

# AEGEON™ Coatings

Technical Data Sheet



## Series 8000

### AEGEON™ Acrylic Urethane

**Description:** A high-solids gloss aliphatic polyurethane coating designed for use in areas where outstanding color and gloss retention are required as well as good chemical, corrosion and abrasion resistance. This product has excellent resistance to wear, impact, sunlight and low ambient temperatures.

#### Applications:

- Storage Tanks • Transport Trailers • Sewage Treatment Facilities
- Offshore Drilling Platforms • Pulp & Paper Plants • Refinery Facilities

#### Technical Data:

<b>Classification:</b>	Aliphatic Polyurethane
<b>Mixing Ratio:</b>	4:1 ratio by volume
<b>Solids by Volume:</b>	60% ± 2% (depending on color choice)
<b>Volatile Organic Compounds:</b>	2.7 lbs per gallon
<b>Viscosity:</b>	110 KU
<b>Tensile Strength:</b>	7,500 psi (ASTM D-638)
<b>Flexural Strength:</b>	10,000 psi (ASTM D-790)
<b>Flexural Modulus of Elasticity:</b>	5.5 psi x 10 <sup>6</sup> (ASTM D-790)
<b>Theoretical Coverage:</b>	962 sq. ft. per gallon at 1.0 dry mil
<b>Primer Coat:</b>	AEGEON 5300 Epoxy Primer
<b>Dry Film Thickness:</b>	2.5 to 3.5 dry mils per coat
<b>Dry Time:</b>	<ul style="list-style-type: none"> <li>• To Touch – 2 to 4 hours @ 77°F</li> <li>• Fully Dry – 8 to 10 hours @ 77°F</li> </ul>
<b>Potlife @ 70°F:</b>	4 hours working time after mixing Part A with Part B. Increased humidity and temperature will decrease potlife.
<b>Gloss:</b>	65+
<b>Flash Point:</b>	16°F (MEK)
<b>Net Weight per Gallon:</b>	12.25 lbs per mixed gallon

## Important Information

### Application Recommendations:

- Apply only on clean, sound, properly prepared substrates in accordance with accepted industry protocols.
- Minimum ambient or substrate temperature is 50°F/10°C, at the time of application. Optimal temperature is 75°F/24°C.
- Maximum ambient or substrate temperature is 140°F/38°C.
- Relative humidity should be between 0-90%.
- Substrate temperature should be 5°F/3°C above the dew point.
- Application and curing times are dependent upon ambient conditions.

**Manual Mixing Instructions:** With a mechanical mixer, thoroughly stir the contents of Part B prior to the addition of Part A. While continuing to mechanically mix Part B, slowly add the contents of Part A. Continue mixing until both components are thoroughly mixed (3-5 minutes). Allow the material an induction time of at least 15 minutes (at 77°F) prior to use.

**Thinner:** Should thinning be necessary for proper atomization of the material, thin with AEGEON 47 H/S Urethane Thinner only the amount necessary to impart the desired spray characteristics. Do not exceed 10% by volume.

**Surface Preparation:** Prior to coating application the substrate must be free of oil, grease, dirt, dust, mill scale, rust, corrosion products, salts, solvents, chlorides, other chemicals, and existing coatings.

**Special Curing Instructions:** Cure time necessary to resist direct contact with moisture at surface temperature:

- 40°F: 22 to 24 hours • 60°F: 7 to 8 hours • 70°F: 5 to 6 hours • 90°F: 4 to 5 hours • 100°F: 3 to 4 hours

**NOTE:** If the coating is exposed to moisture before the preceding cure parameters are met, dull or flat appearing areas may develop.

**Application Equipment:** Airless Spray Equipment, Conventional Spray Equipment, Roller (Brush in small areas)

**Storage Conditions:** Keep tightly sealed in the original container until ready for use. Store at 50-85°F/10-29°C, out of direct sunlight. Properly stored, the base resin has a shelf life of 6 months; the converter, 24 months. Proper jobsite storage is essential to performance.

**Clean Up:** Cured product may be disposed of without restriction. Excess base resin and converter material should be mixed together and allowed to cure, then disposed of in the normal manner.

**Safety:** Basic safety for personal protection includes:

- Long-sleeve overalls or disposable Tyvex® overalls • Rubber gloves
- Splash shield or safety glasses with splash guards • Rubber or leather boots
- Do not use near high heat or open flame • Do not take internally • Keep out of the reach of children

### Safety

For best results and safest usage, user is specifically directed to consult the current MSDS for this product. When using this product in a confined space or closed area, consult the current OSHA or ANSI bulletins on safety requirements.

### For Industrial Use Only

The recommendations made herewith and the information set forth with respect to the performance and use of our products are based on our own research and are believed, but not warranted, to be accurate. The product is sold without warranty as to fitness or performance, express or implied, and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible uses of our products are not intended as recommendations to use our products in the infringement of any patent.