

# Product Data Sheet

## ACC 75/Aliphatic Clear Coat

**Product Description-** *Advacoat ACC75 Aliphatic Clear Coat* is a aliphatic Polyurea floor coating based on new Polyurea technology. **ACC75 Aliphatic Clear Coat** displays little odors and is very moisture insensitive. This product has been specifically formulated as a topcoat for existing epoxy floors or as a standalone floor coating. This coating is extremely color stable and displays excellent UV weathering characteristics. **ACC75 Aliphatic Clear Coat** can be applied in temperatures ranging from -20°F to 200°F. When fully cured, **ACC75 Aliphatic Clear Coat** will produce a highly abrasion resistant, high-gloss, smooth finish.

**ACC75 Aliphatic Clear Coat** is used by itself or in combination with other materials to produce coatings and liners on concrete or metal substrates. Its composition makes it suitable for applications requiring color stability. **ACC75 Aliphatic Clear Coat** produces an extremely tough film at any thickness. **ACC75 Aliphatic Clear Coat** may be applied in all positions to any suitably prepared substrate.

**Uses-** **ACC75 Aliphatic Clear Coat** adheres well to several substrates including concrete, steel, and plastic. The high tensile strength of the coating allows this product to better withstand the abuse of industrial equipment, steel-wheeled carts, and forklifts with minimal cracking and peeling. The excellent chemical resistance is well suited for some harsh applications.

### Ideal for Applications In-

- Cold Storage Areas
- Industrial Warehouse Floors
- Food Processing Areas
- Automobile Dealership Floors
- Pulp and Paper Mills
- Chemical Plants
- Aircraft Hangars
- Fertilizer Plants
- Garage Floors
- Patios
- Walkways
- Driveway
- Show Rooms

### Advantages-

- Fast Cure
- Low Moisture Sensitivity
- High Tensile Strength
- Color Stable
- Adheres well to Most Substrates
- Low Odor
- Excellent UV Stability
- Cures from -20° F to 200° F
- High Gloss Finish
- USDA and FSIS Acceptable
- Adds New Life to Epoxy Floors

### Physical Properties-

<u>Cured Film Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Shore Hardness	ASTM D2240	60-65D
Elongation	ASTM D638	26%
39 mg weight loss Clear coat 47 mg	ASTM D638	1971
SC 17 wheel for 1000 cycles & 1000g weight		
Tensile Strength, psi		3500-4000 psi
Working Time (77° F)		15 minutes
Tack Free		1 hour
Walk on		3-5 hours
Return to Use		16-24 hours

## Chemical Resistance-

### ASTM D3912 - modified 21 day immersion exposure

The information in this chart is intended only as a guide. This information has been compiled from various sources believed to be reliable. To verify compatibility or suitability of this product in specific applications, the product should be tested under the specific service conditions. The ratings are for resistance at 77° F unless otherwise noted. Recommended Conditional means there will be some effect: swelling, discoloration, cracking. Wash down within one hour of spillage to avoid effects.

Recommended R  
 Recommended/Conditional RC  
 Not Recommended NR

<u>Test Media:</u>	<u>Result:</u>	<u>Test Media:</u>	<u>Result:</u>
Acetic Acid, 100%	NR	Motor Oil	R
Acetone	RC	MTBE	RC
Ammonium Hydroxide, 20%	R	MTBE (5%)/gasoline	RC
Antifreeze/Water	RC	Muriatic Acid (10% HCL)	R
Brake Fluid (DOT 3)	RC	NaCl (10%)/water	R
Clorox 10%/water	RC	Phosphoric Acid (10%)	R
Diesel Fuel	R	Potassium Hydroxide (10%)	R
Gasoline	R	Skydrol	RC
Hydrochloric Acid (10%)	RC	Sodium Hydroxide (50%)	R
Hydrofluoric Acid (10%)	RC	Sodium Bicarbonate	R
Hydraulic Fluid	RC	Sugar/Water	R
Isopropyl Alcohol	R	Sulfuric Acid (10%)	R
Lactic Acid	R	Sulfuric Acid (50%)	RC
MEK	RC	Toluene	R
Methanol	RC	Vinegar (5%)/water	R
		Water (180° F)	R

**Limitations-** Requires dry substrate. Consult **Advantage Chemical Coatings**

## Coverage Rates-

Theoretical Square Feet Per Gallon

Mils	5	10	15	20	30
	320	160	120	80	60

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

## Packaging-

- 6 Gallon Kit: 3 gallons of 'A' side and 3 gallons of 'B' side.
- 2 Gallon Kit: 1 gallons of 'A' side and 1 gallons of 'B' side.
- Larger Kits Available, Consult **Advantage Chemical Coatings**

**Mixing- 1 Part A to 1 Part B,** Pour equal parts of "A-Side" into "B-Side" - (1 gallon at a time is recommended) mix thoroughly by hand with stir stick **for two minutes** until product becomes clear. When mixing in pigment, add equal part A into equal part B, stir, add pigment into mixed product, mix thoroughly until consistent color is attained. If desired add in 5% to 10% MEK and stir. Always use stir stick and scrape sides and bottom of mixing bucket. Do not use drill motor mixing. Always stir both sides independently prior to batch mixing.

**Shelf Life-** One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

**Clean Up-** Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

**Safety-** Read Material Safety Data Sheets provided with all shipments. Additional copies are available upon request from **Advacoat** or your local dealer.

Basic safety for personal protection is:

- 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.

### **Preparation-**

- This product requires a dry substrate. Any moisture vapor transmission test revealing over 3-4 pounds per 1000 feet, requires a moisture barrier system installed prior to using this product.
- Concrete substrates should be clean, sound, and dry. Prime concrete less than 30 days old with **Moisture-Lok** applied at 300-400 square feet per gallon.
- Metal substrates should have a 3-5 mil blast profile and should be primed with **Metal Etch** applied at 500 square feet per gallon.

**Installation- ACC75 Aliphatic Clear Coat** adheres well to several sound substrates including concrete, steel, and wood. All surfaces should be free of loose particles, rust, voids and spalls. It is recommended that this product be applied in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. **ACC 75 Aliphatic Clear Coat** should be roller or squeegee applied 5 to 10 mils thickness per coat. There is no thickness limitation for **ACC75 Aliphatic Clear Coat**; however, **ACC75 Aliphatic Clear Coat** should be applied in 5–10 mil coats for maximum leveling and air release.

- It is recommended to wipe steel surfaces with acetone or denatured alcohol prior to application of **ACC 75 Aliphatic Clear Coat**. This will remove moisture that may have accumulated on the surface after sandblasting.
- An 80% to 100% solids (non-glossy) epoxy, solvent-based isocyanate or water dispersible isocyanate (for concrete only) are acceptable primers for **ACC75 Aliphatic Clear Coat**. **Note:** Some epoxy primers require the use of MEK as a wipe-down solvent (due to the build-up of active hydrogen or amine blush on the surface) prior to the application of **ACC75 Aliphatic Clear Coat**.

### **TOP-COATING:**

**ACC75 Aliphatic Clear Coat** may be top-coated after it has become tack free.

### **REPAIRS & MAINTENANCE:**

Simply brushing on **ACC75 Aliphatic Clear Coat** can make small repairs to cuts in the coating. This material can be brushed on the surface after light scuffing.

### **Technical Services-Sales and Customer Support 877-830-2628**

**Warranty- Advacoat.** Will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

**Colors-** Custom tinting on request. Consult **Advacoat**