



ACRYLA TEC - Advanced Coating System

1. Product Description:

Acryla Tec Coating (ATC) is a Acrylic/Polymer Hybrid multi resin single component advanced closed-cell coating technology.

Ready to use on a wide range of surfaces providing superior substrate protection, anti-corrosion, thermal heat reduction, waterproofing, and long-term asset protection reducing the carbon/energy footprint giving a Return on Investment for the use of Industrial & Commercial applications.

Acryla Tec Coating: is a water-based, single component, rust, mold and mildew preventative, acid resistant, low VOC: >50 grams, waterproof, vapor barrier, flame retardant, 700% elongation, 1350 psi tensile strength, snow & ice phobic, equivalent insulation factor of R19, ultra high reflectivity 97.3%, UV stable and has a 5-Year Shelf Life.

2. Intended Uses:

Specifically designed to restore, renovate and extend asset life for facilities and properties. Applying this coating system during construction and/or during refurbishments, will improve both new and old substrates and will significantly help lower future maintenance costs.

3. Advantages/ Benefits

Quick and easy prepwork and application process, lowering labor cost, direct application over rust, damaged substrates, and almost all substrates.

Elegant rubber-like feel with high gloss or matte finish with long-term asset life protection.

Long-term barrier protection, Corrosion protection, Waterproofing, UV-stable, Chemical resistant Coating System.

Thermal heat reduction properties (color: white) 97.3% reflexivity, 35-45% average temperature/ up to 70% heat reduction.

Maximum surface temperature of 106 degrees from UV lighting.

Combination of equivalent insulation factor-R19 and reduced heat of substrate, energy cost (electricity/ fuel) will on average, be reduced by 30-35%. For more information about energy savings and efficiencies please contact us.

Return on Investment Factor (ROI): You Will Save In: Application cost, Maintenance cost, Facilities cost, Repair cost, Electricity cost, Heating cost, Cooling cost, Cleaning cost.

4. Product Characteristics

Finish:	High Gloss or Matt
Color:	White / Grey / or other
Odor:	Faint
pH:	8.5
Form:	Acrylic Multi Resin Liquid
Relative evaporation rate (butyl acetate=1):	<1 Slower
Melting point:	>0° C / >32° F
Boiling point:	>100° C / > 212° F
Auto-ignition temperature:	Not available
Decomposition temperature:	Not Determined
Flammability (solid, gas):	Not Applicable
Vapor pressure:	>1 mm Hg @ 20° C
VOC:	>50 Grams
Flash Point:	Not Applicable
Flash Point Method:	Not Applicable
Relative vapor density @ 20 o C:	Heavier than air
Relative density:	1- 1.2
Density:	9.38 lbs/Gallon 1.13 kg/ Liter
Solubility:	Diluted with water
Log Pow:	Not available

5. Performance Characteristics

Viscosity, KU:	Initial: 123 Heat aged: 126
Adhesion (Dry film):	concrete: 8.9A,C galvanized: 2.2A asphalt: 2.0A,C
Adhesion (Wet film):	concrete: 14.2C,CP galvanized: 1.8A asphalt: 0.6A,C
Temperature performance range:	+200 F° / -100 F° + 93°C / - 73°C
Elongation room temperature:	% to max stress 700%
	% to recovery 44%
Elongation freezing point (32° F):	% to max stress 430%
	% to recovery 28%
Tensile strength room temperature:	1350 psi
Tensile strength freezing point (32° F):	2220 psi
pH Resistance:	0-14
Shelf life:	1-5 Years depending on storage condit

6. Recommended Thickness & Coverage Area

	General Coverage:	Heavy Coverage:
Recommended Thickness (Dry):	11 mils / 270 microns	22 Mils / 540 microns
Coverage:	100 ft ² = 9.2 m ² per gallon EU: 1 Liter = 2.42 m ²	50 ft ² = 4.6 m ² per gallon EU: 1 Liter = 1.21 m ²
Theoretical Coverage:	72.7 - 66.6 ft ² / US Gallon @ 9.9 - 11.28 Dry Mils 6.75 – 6.19 m ² / 3.78 Liters at 247.5 - 282 Dry microns	

Typical Thickness:

One Coat Wet	550-600 microns (22 - 24 Mils)
One Coat Dry	247.5-282 microns (9.9 - 11.28 Mills)

Thickness is dependent on end user and specific system requirements. Consult the relevant application guidelines.

7. Method of Application and Equipment

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. All methods may be used to require a final thickness dry film free of pin holes or holidays. If specific application equipment is not listed below, equivalent equipment may be substituted.

Airless spray:

Pump	Minimum 1 - 1.5 GPM,	3.5 to 5.5 L/min
Pressure	Minimum pressure 3000 Psi,	200 Bar
Hose	Minimum 3/8 hose,	10 mm hose
Tip	25-35 tip size	
Filter	May need to remove filters	
Reduction	Not required or recommended	
Recommend Brands	Graco TexSpray line & Titan Speeflo PowrTex line	

9. Application Conditions

Temperature:	55°F to 100 °F / 13°C to 37°C
Material Temperature:	55°F to 200 °F / 13°C to 93°C
Surface temperature:	Not within 5 °F / 3 °C of Dew Point
Relative humidity:	85% maximum

Temperature must be above 40 °F/ 5 °C for the following 24 hours after application.

Do not coat in rainy weather or when freezing conditions are expected before dry times are Completed. (usually the first 24 - 48 hours).

10. Surface Preparation

All Surfaces to be coated must be clean, dry, stable and free from contaminants. Remove all oil, dust, grease, dirt, loose rust, loose paint/coating and other foreign material to ensure adequate adhesion.

Prior to application all surfaces should be assessed and treated.

Rusted surfaces must be descaled and stable.

Method: Clean, degrease, pressure wash, abrasive rubbing/sanding, Hand tool clean, Power tool clean, may include solvents, abras polished surface.

Previously Painted Surfaces: Clean and prep according to the desired surface profile. **Note:** if the undercoating/ material delaminates from the surface then the ATC coating will be rendered unusable.

Porous surfaces: -Concrete, Brick, Tar-paper, Shingles, Tile, Stone, Textiles, etc.
Surface area must be clean, dry (cured, no moisture) and stable.
Pressure wash, clean, Remove: oil, grease & contaminants.

Plastic Surfaces: Clean with solvents. On plastic substrates Plastic adhesion bonding coating must be applied before (ATC) can top coat over it.
Recommended brand: Bulldog plastic adhesion promoter

Recommended all prep work is complete before application. Ensure substrates are prepped for adequate adhesion.

11. Application Procedures

Surface preparation must be completed as indicated.

Mixing: Mix content thoroughly before use

Mix Ratio: Product is single component, no other parts needed



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Working Pot Life:	1-2 Hours depending on weather conditions
Application Method:	All methods may be used, (ATC) is applied in multiple thin coats until proper coverage is achieved.
Weather:	Confirm weather condition is suitable for application
Additional coat:	1-4 h, See Drying Schedule for details (#8 page 4)
For porous surfaces:	ATC-50 Bond is recommended to be applied first to add adhesion
Rusted Surfaces	Multiple thin coats are recommended, before final thick coat is applied to allow ATC to encapsulate surfaces properly.
Maximum wet coat:	Avoid application thickness over 24 mils/ 600 microns, resulting "Mud Crack". Use ATC 300 Fiber Repair for increased thickness

Apply Coating at the recommended film thickness and spreading rate (area).

Typical Thickness:

One Coat Wet	550-600 microns (22 - 24 Mills)
One Coat Dry	247.5-282 microns (9.9 - 11.28 Mills)
Limit:	No limit to number of coats
Final thickness:	Dry film should be free of pin holes & holidays

Work Stoppages: In-between application, close all buckets & protect paint equipment

You may leave ATC product charged in spay-machine for 1-2 Hours in shaded area. Paint equipment: Spray machine, hoses, brushes, rollers etc. /& ATC material must be kept out of direct sunlight, warmer temperatures and open air. This is critical to maintain quality of product and application results.

12. Clean Up Instructions

Clean all equipment immediately after use with water.
Dried material may be cleaned with Acetone, or Lacquer Thinner.
All surplus material may be saved and used at a later time.

13. Safety Precautions /Refer to the Acryla Tec SDS before use.

This product is intended for use by professional applicators in industrial situations in accordance with the advice given on this Technical Data Sheet and Acryla Tec Safety Data Sheet provided by Acryla Tec Industries Inc.
Handle in accordance with good industrial hygiene and safety practice. Keep the container closed and in an upright position when not in use. Goggles or safety glasses should be worn where there is a possibility of splashing or spraying. When Spaying, protect from over spay and particles. Ensure adequate ventilation, especially in confined areas. None required if good ventilation is maintained. Wear suitable protective clothing. Avoid contact with skin and eyes.



If in doubt regarding the suitability of use of the product, consult Acryla Tec Industries Inc.

14. Disclaimer

The information provided herein this Technical Data Sheet is believed to be accurate at the time of preparation or prepared from sources deemed to be reliable, but it is the full responsibility of the user to investigate and comprehend other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Aspects of the product should not be construed as any guarantee of technical performance or suitability for particular applications. Although data in this TDS are based on information at this moment and are believed reliable, we cannot assume any responsibility for the use thereof, nor do we accept any liability for loss or damages directly or indirectly caused by our product.

The user is responsible to check the safety, quality and all other properties of this product prior to use.
