



ClearJacket Aliphatic Polyurea TDS

877-772-9629

ClearJacket is an extremely tough optically clear weather resistant 2-component polyurea formulation. It exhibits excellent durability, resistance to abrasion, chemicals and sunlight. It is used primarily in exterior high-wear environments where severe topcoating protection is required. This system may also be color tinted. It retains a high dielectric insulator capacity. ClearJacket may be used over diverse types of substrates such as metals, woods, foams, engineering polymers, composites, brick and concrete. A primer may be required depending on type of substrate or conditions thereof to achieve proper bonding performance. SprayEZ's primers range from Primer 5000, Primer28, WB ClearSkin (1:1), WB Jet Epoxy, Jet Epoxy, AME or CRP.



ClearJackets's toughness places it in demanding industries such as power plants, boat building, marine environments, industrial outdoor heavy equipment, commercial flooring, decorative concrete, steel infrastructures, etc.

ClearJacket is available in 2 primary applicaion formats, 1- Fast-Set Sprayable and 2- Rollable. The rollable is formulated in 4 versions; 1-Hard-Fast; 2-Hard-Slow, 3-Flexible-Fast and 4-Flexible-Slow. The mix ratio of the **Slow** rollables are 1A:2B with gel time 30 minutes depending on ambient air and substrate temperatures. The mix ratio of the **Fast** rollables are 1A:1B with gel time of 15 minutes depending on ambient air and substrate temperatures. Additional coats may be applied within 6 hours without abrading the surface.

CLEARJACKET Rollable PHYSICAL PROPERTIES		
Optical Clarity	Visual	Clear
Flex Modulus	ASTM D790	250k psi
Tensile Strength	ASTM D412	4200 psi
Elongation	ASTM D2256	150%
Hardness -Shore D	ASTM D785	75
Abrasion -TaberCS17	ASTM D4060	50 mg/1k cycles
Tear Strength	ASTM D624	200 lbs/ linear in.

CLEARJACKET Fast-Set Sprayable PROPERTIES		
Optical Clarity	Visual	Clear
Flex Modulus	ASTM D790	200k psi
Tensile Strength	ASTM D412	4100 psi
Elongation	ASTM D2256	150%
Hardness -Shore D	ASTM D785	50
Abrasion -TaberCS17	ASTM D4060	50 mg/1k cycles
Tear Strength	ASTM D624	200 lbs/ linear in.

TECHNICAL APPLICATION DATA

CLEARJACKET is a two component 100% solids aliphatic formulation which does not contain VOCs.

Fast-Set CLEARJACKET Sprayable may be applied by a standard 2-component low pressure spray machine or hand-held cartridge gun. CLEARJACKET Rollable is typically applied by squeegee, roller or brush. Coated substrate surfaces must be clean/dry and free of contaminates, dust, etc. Application temperatures range from 40°F to 110°F. Hand batch mixing must thorough with careful attention as to not induce air into the mixed liquid. Functional operation temperature range is from -40°F to 175°F. Final top-coat application surface is glossy smooth. Coverage at 16 mils is 100 sq. ft./ mixed gal.

Adhesion Results of Typical Substrates per ASTM D-4541 Elcometer

Concrete- Primed	>300 psi	Concrete cohesive failure; excellent bonding
Steel- Primed	>1000 psi	Excellent bonding
Wood- Primed	>250 psi	Wood failure; excellent bonding



Chemical Resistance Chart
Click Here

Preparation of substrate surface prior to the application of a Spray Equipment and Coatings Inc product is extremely important to achieve proper system bonding.

Concrete must be fully cured and should be prepared with a sandblasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Similar proper preparation must be performed for metals. Primers also require this proper preparation. Always power clean using mild detergent prior to sanding, etc. Call [TechSupport Group for assistance](#) with selecting SSS application system. Also read the [Application Page on this website](#). If patching concrete, use our mineral filled fast-set Acrylic Modified Epoxy applied by trowel. For expansion joints, use Joist Seal applied by hand cartridge dispensing gun. It is always best to perform a test within a small section of the application area prior to full scale engagement.

This technical data information is accurate to the best of our knowledge. Spray Equipment and Coatings Inc™ makes no warranty, expressed or implied within the materials on this website, its use or with its any application. Spray Equipment and Coatings Inc.™ shall not be liable for material or application related injuries, material non-conformance, application failures or any consequential damage by the use of this product.