



ECO TOUGH 2K HEAVY DUTY POLYUREA COATING

Build Greener • Build Better

PRODUCT DESCRIPTION

ECO Tough 2K is a two component, 100% solids polyurea, designed for superior performance in harsh industrial applications. **ECO Tough 2K** displays outstanding chemical and heat resistance. It is formulated in two versions: a slow (rollable) version and a fast (spray) version. **ECO Tough 2K** adheres well to a wide range of substrates including concrete, metal, wood and masonry. It may be applied at temperatures ranging from 20°F to 100°F and has a wide service temperature range of -40°F to +350°F.

KEY PRODUCT ADVANTAGES

- + Superior Chemical and Heat Resistance
- + Excellent Adhesion to a Wide Range of Substrates: concrete, metal, wood, masonry, etc
- + Wide Service Temperature Range: -40°F to 350°F
- + Available in Rollable and Spray Versions
- + Non-Slip or Smooth Surface Finish
- + Superior Abrasion and Wear Characteristics
- + Water Resistant
- + Rapid Cure: open to foot traffic in as little as 5 min
- + No VOC's
- + Low Odor
- + Meets USDA/FDA/CFIA Requirements for Use in Regulated Food Facilities
- + Not Regulated per USDOT Shipping Regulations – Class 55
- + Low Maintenance
- + LEED Compliant

PRIMARY APPLICATIONS

- + Heavy Duty Industrial Applications
- + Chemical Resistant Coating
- + Heat Resistant Coating
- + Non-Slip Coating
- + Mechanical and Boiler Rooms
- + Waterproofing Coating
- + Secondary Containment
- + Wastewater Treatment Plants
- + Bridge and Coatings
- + Oilfield and Pipeline Coating
- + Truck Bed Liner
- + Rail Car Liner

AVAILABLE COLORS

Available in most primary colors – refer to Ecolink color chart.

PACKAGING

- + 5 Gallon Pails
- + 50 Gallon Drums

COVERAGE

100 sq ft per gallon at 16 mils coating thickness

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PHYSICAL PROPERTIES

PROPERTY	UNIT OF MESUREMENT	ECO TOUGH SLOW (ROLLABLE)	ECO TOUGH FAST (SPRAY)
Solids Volume	%	100	100
Tensile Strength ASTM D412	PSI	*2500 - 4500	*2500 - 4500
Elongation ASTM D412	%	*300 - 400	*300 - 400
Hardness ASTM D785	Shore A or D	*90A - 65D	*90A - 65D
Abrasion - Taber CS17 ASTM D4060	mg loss/1000 cycles	50	50
Tear Strength ASTM D624	PLI	400	400
Flex Modulus ASTM D790	PSI	*100,000 - 250,000	*100,000 - 250,000
Application Temperature Range	°F	20 - 100	20 - 100
Viscosity A Side	CPS	500	500
Viscosity B Side	CPS	300	300
Service Temperature Range	°F	-40 to +250	-40 to +350
Mix Ratio	PBV	1A:1B	1A:1B
Gel Time		*1-15 MINUTES	*15-30 SECONDS
Open to Foot Traffic	Minutes	*20-60	*5-10
Open to Industrial Traffic	Hours	*2-6	*1-2

*Values depend on gel time formulation

CHEMICAL RESISTANCE

Chemical	Result (25°C)	Chemical	Result (25°C)
Acetic Acid (100%)	C	NaCl H ₂ O (10%)	R
Acetone	C	Nitric Acid (50%)	RC
Ammonium Hydroxide (50%)	C	Phosphoric Acid (10%)	R
Benzene	C	Phosphoric Acid (50%)	RC
Brine-Saturated H ₂ O (310 g/l)	R	Potassium Hydroxide (10%)	R
Chlorinated H ₂ O	R	Potassium Hydroxide (20%)	R, Dis
Clorox® (10%) H ₂ O	R	Propylene Carbonate	RC
Diesel Fuel	R	Skydrol®	R
Gasoline	R	Sodium Hydroxide (25%)	C
Gasoline / 5 % MTBE	R	Sodium Hydroxide (50%)	NR
Gasoline / 5% Methanol	R	Sodium Hypochlorite (10%)	R
Hydrochloric Acid (37%)	RC	Sodium Bicarbonate	R
Hydrofluoric Acid (10%)	RC	Stearic Acid	C
Hydraulic Fluid (Oil)	R	Sugar/Water	R
Isopropyl Alcohol	R	Sulfuric Acid (10%)	C
Lactic Acid	RC	Sulfuric Acid (50%)	NR
MEK	RC	Toluene	R
Methanol	R	1,1,1-Trichlorethane	C
Methylene Chloride	C	Trisodium Phosphate	R
Mineral Spirits	RC	Vinegar I H ₂ O (5%)	R
Motor Oil	R	H ₂ O	R
MTBE	C	H ₂ O (14 days @ S2°C)	R
Muriatic Acid (10%)	R	Xylene	RC

72 Hour Spot Test Chemical Resistance Data			
Chemical	Rating	Chemical	Rating
50% HNO ₃	8	57% HI	8*
37% HCl	10	50% H ₃ PO ₄	5
50% NaOH	10	Anti Freeze	10
50% H ₂ SO ₄	10	Motor Oil	10
Brake Fluid	10		

Rating Guidelines:	
0 to 1	75% -100% film dissolved
1 to 2	50% -75% film dissolved
2 to 3	25% - 50% film dissolved
3 to 4	1% - 25% film dissolved
4 to 5	severe film damage, cracking, pinholes
5 to 6	film moderate to heavy damage, swollen, dulled
6 to 7	film moderately damaged, haze, residue
7 to 8	film with slight or no damage, slight haze, residue
8 to 9	film in very good condition
10	film unchanged, excellent condition

*Note:
 • All samples using 57% HI had purple iodine discoloration due to the nature of the acid in air.
 • Samples were placed at room temperature for 72 hours after application of one ml of solvent on 16 mil film of products

Chart Key
 R => Recommended Little or no visible damage
 RC => Recommended Conditional Some effect - swelling or discoloration
 C => Conditional Cracking-wash down within 1 hour of spillage to avoid effects
 NR => Not Recommended
 Dis => Discoloration



APPLICATION GUIDELINES

Substrate Preparation

Prepare all surfaces clean and sound, prior to application of **ECO Tough 2K**. Thoroughly clean substrate of any dirt, dust, loose material, oil, grease, laitance, rust, scale, paint, coatings, curing compounds, acids, chemicals and all other contaminants. Mechanical abrasion is recommended to achieve optimum adhesion. Fill all joints, cracks and holes flush to surface with **ECO Weld** joint and crack sealant. Trim any overfill flush to surface.

Generally, primers are not required for use over properly prepared substrates such as metals, concrete and masonry. Contact manufacturer for primer requirements over other substrates.

Application

ECO Tough 2K Slow Version is formulated with gel times or 1-15 minutes. It may be applied either with a roller or low pressure, plural component spray equipment

ECO Tough 2K Fast Version is formulated with a fast gel time of 15-30 seconds for high production spray applications, utilizing high pressure, plural component spray equipment.

For high pressure spray applications, the proportioning unit must be capable of supplying the correct pressure and heat for the required hose length on a consistent basis.

Recommended equipment settings:

Side A Hose Temperature – 150°F

Side B Hose Temperature – 150°F

Block Temperature – 150°F

Prior to spraying, mask off surrounding areas to cover over spray. Provide adequate ventilation and wear the proper respirator.

DISCLAIMER

The technical data and any other printed information furnished by Ecolink Products Group, Inc. is true and accurate to the best of our knowledge. This product conforms to Ecolink's in-house quality control procedures and should be considered free of defects. Due to the wide range of applications of this product, it is impossible to assume responsibility for any errors in regard to application, coverage, workmanship, over-spray or injuries resulting from the use of this product. Ecolink Products Group, Inc. makes no warranty, expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

ADHESION TO SUBSTRATES

Adhesion results for typical substrates, tested with ASTM D-451 Elcometer:

(no primer)

Concrete: >300 psi (cohesive failure)

Steel: >1000 psi

Wood: >250 psi (wood failure)

REPAIRS AND MAINTENANCE

Lightly sand the damaged area to create a roughened surface. Clean all loose material, dirt, dust and debris from damaged area. Spray on a thin coating of **ECO Tough 2K**.

STORAGE, SHIPPING & HANDLING

Store product in a dry location in factory sealed containers at 60 to 90°F. Product shelf life is minimum 12 months in factory-sealed containers. **ECO Tough 2K** is Class 55, not regulated by USDOT shipping regulations.

SAFETY

Refer to Material Safety Data Sheets.