



ECO BLASTPROOF BLAST/SHATTER PROTECTIVE COATING

Build Greener • Build Better

PRODUCT DESCRIPTION

ECO BlastProof is a two component, 100% solids, polyurea, designed as a protective coating for applications exposed to blasting and shattering. **ECO BlastProof** has exceptional tear strength and increases a structure's ability to withstand blasts and resist shattering as a result of earthquakes, storms, blasts, etc. **ECO BlastProof** displays extremely fast cure times and excellent adhesion to a wide range of substrates, including: concrete, metal, wood and foam. This product is applied with plural component high pressure spray unit; it may be applied at temperatures between from 20°F to 150°F. **ECO BlastProof** has excellent chemical and water resistance and a service temperature range of -40°F to +250°F.

KEY ADVANTAGES

- + Blast/Shatter Resistant
- + Earthquake and Storm Protection
- + Excellent Chemical Resistance
- + Excellent Adhesion to a Wide Range of Surfaces
- + Superior Abrasion and Wear Characteristics
- + Rapid Cure
- + Application temperature range from 20°F to 150°F
- + Working time at 75°F is 25 min
- + Wide Service Temperature range from -40°F to 250°F.
- + 100% Solids, Low Odor, No VOCs- Indoor applications with minimal disturbance
- + Not Regulated per USDOT Shipping Regulations- Class 55
- + Available in Spray or Rollable Versions
- + Low Maintenance
- + LEED Compliant

PRIMARY APPLICATIONS

- + Blast/Shatter Protective Coating
- + Earthquake Protective Coating
- + Storm Protective Coating
- + Heat Resistant Applications
- + High Security Applications
- + Chemical Resistant Applications
- + Mechanical and Boiler Rooms
- + Aerospace Applications
- + Defence Applications
- + Military Applications

AVAILABLE COLORS

Available in most primary colors – see Ecolink color chart.

PACKAGING

- + Cartridges
- + 5 Gallon Pails
- + 50 Gallon Drums

COVERAGE

100 sq ft per gallon at 16 mils coating thickness

Ecolink Products Group, Inc.
1-855-ECOLINK (326-5465) Toll Free
www.ecolinkgroup.com



MEMBER OF
**INTERNATIONAL
CONCRETE REPAIR
INSTITUTE**





PHYSICAL PROPERTIES

PROPERTY	UNIT OF MEASUREMENT	STANDARD	ECO BLASTPROOF
Hardness	(Shore D)	ASTM D1737	55
Flexibility	(1/ 8 " Mandrel)	ASTM D1737	Pass
Tensile Strength	(PSI)	ASTM D412	3411
Flashpoint	(°F) ASTM	Pensky-Martin	>200
Elongation	(%)	ASTM D412	450L%
Tear Strength	(PLI)	ASTM D2240	500
Taber Abrasion	(mg loss)	ASTM D4060	22 (C518 WHEEL 1 kg per 1000 cycles)
Gel Time			30 seconds
Ratio Parts by Volume			1A:2B

Adhesion Results of Typical Substrates per ASTM D-4541 Elcometer

SURFACE	RESULT	DESCRIPTION	SURFACE
Concrete- Primed	>300 psi	Cohesive failure, excellent bonding	Concrete- Primed
Steel- Primed	>1,000 psi	Cohesive failure, excellent bonding	Steel- Primed
Wood- Primed	>250 psi	Wood failure, excellent bonding	Wood- Primed

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%)	NC
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 I H ₂ O	R
Isopropyl Alcohol	R	Sulfuric Acid (10%)	C
Lactic Acid	RC	Sulfuric Acid (50%)	N R
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

Surface Preparation

Prepare all surfaces clean and sound, prior to application of **ECO BlastProof**. 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 Rapid Set Polyurea 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.

Mixing and Application

ECO BlastProof is applied with plural component high pressure spray equipment.

Typical Processing Properties

ECO BlastProof has an adjustable gel time of 5 seconds to 15 minutes and an adjustable tack free time of 10 seconds to 30 minutes.

Recommended Spray Equipment Settings

- + The Hose Temperature for Side A and B is recommended at 150°F
- + The Block Temperature is recommended at 150°F
- + Spray Pressure with a Graco Fusion Gun is recommended at 2000 PSI
- + Spray Pressure with a Glas-Craft P-2 Gun is recommended at 1500 PSI

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 or roll on a thin coating of **ECO BlastProof**.

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 BlastProof** is Class 55, not regulated by USDOT shipping regulations.

SAFETY

Refer to Material Safety Data Sheets.

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.