



ECO EPOXY HEAVY DUTY EPOXY COATING

Build Greener • Build Better

PRODUCT DESCRIPTION

ECO Epoxy is a rapid cure, 100% solids epoxy coating, designed for heavy duty applications. **ECO Epoxy** exhibits fast cure time, excellent adhesion and wear characteristics, water insensitivity and chemical resistance. This environmentally friendly epoxy has no VOC's, emits virtually no odors. It meets USDA, FDA and CFIA requirements for indirect food contact and can be used indoors with minimal disturbance. **ECO Epoxy** can be applied at temperatures ranging from 40° F to 120° F. **ECO Epoxy** cures to a glossy smooth finish; it may be broadcast with aggregate to provide a non-slip surface.

KEY ADVANTAGES

- + Rapid Cure – Foot Traffic in 8 Hours or Less
- + Excellent Adhesion to a Wide Range of Substrates: concrete, metal, wood, masonry, etc.
- + Superior Wear Characteristics
- + Resists Cracking - 28% Elongation
- + Excellent Chemical Resistance
- + Non-Slip or Smooth Finish
- + No VOC's
- + Low Odor
- + Wide Temperature Application Range: 40° – 120°F
- + Meets USDA/FDA/CFIA Requirements for Indirect Food Contact
- + Not Regulated per USDOT Shipping Regulations – Class 55
- + Low Maintenance
- + LEED Compliant

PRIMARY APPLICATIONS

- + Heavy Duty Flooring
- + Non-Slip Floor and Deck Coatings
- + Chemical Resistant Coatings
- + Heat Resistant Coatings
- + Food Facility Coatings
- + Bottling Plants
- + Warehouses and Supply Depots
- + Maintenance and Repair Facilities
- + Military Applications
- + Aircraft Hangers and Decks

AVAILABLE COLORS

- + Natural, Light Grey, Medium Grey, Black
- + Custom Colors Available on Request

COVERAGE

100 sq ft per gallon at 16 mils coating thickness

PACKAGING

- + 5 Gallon Pails
- + 50 Gallon Drums

Ecolink Products Group, Inc.

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**INTERNATIONAL
CONCRETE REPAIR
INSTITUTE**





PHYSICAL PROPERTIES

| PROPERTY | Eco 3 |
|---|---------------------------|
| Solids Content | 100% |
| Mix Ratio | 1A : 2B by volume |
| Viscosity B Side | 600-1500 cps @ 70° F |
| Viscosity A Side | 100 cps @ 70° F |
| Pot Life | 20 Minutes @ 70° F |
| Tack Free Time | 2 Hours @ 70° F |
| Open to Foot Traffic | 6 Hours @ 70° F |
| Compressive Strength (ASTM C579) | 10,000 PSI @ 7 days |
| Tensile Strength (ASTM D638) | 8,880 PSI |
| Bond Strength (ASTM D4541 Elcometer) | >300 PSI (concrete fails) |
| Elongation (ASTM D638) | 28 % |
| Flexural Modulus (ASTM D638) | 485,000 PSI |
| Flexural Strength (ASTM D790) | 12,670 PSI |
| Hardness (ASTM D2240) | 70-85 Shore D |
| Taber Abrasion CS17 wheel 1 kg weight, 1000 cycles (ASTM D4060) | 40 mg Loss |
| Izod Impact, Notch (ASTM D628) | 700 ft lb/in |
| Flashpoint (Pensky-Martin closed cup) | >200° F |
| Heat Deflection (ASTM D648) | 63° F |

CHEMICAL RESISTANCE

| CHEMICAL | RESULT 25°C |
|------------------------------|-------------|
| Acetic Acid (100%) | R |
| Acetone | R |
| Ammonium Hydroxide (50%) | R |
| Brake-Fluid (310g/l) | R |
| Brine-Saturated H2O (310g/l) | R |
| Gasoline | R |
| Hydrochloric Acid (50%) | R |
| MEK (Methyl Ethyl Ketone) | R |
| Methanol | R |
| Muriatic Acid (10%) | R |
| Nitric Acid (20%) | RC |
| Potassium Hydroxide (10%) | R |
| Potassium Hydroxide (20%) | R, Dis |
| Sodium Chloride/Water (10%) | R |
| Sodium Hydroxide (50%) | R, Dis |
| Sodium Hypochlorite (10%) | R |
| Sodium Bicarbonate | R |
| Sugar/Water | R |
| Sulfuric Acid (10%) | R |
| Sulfuric Acid (>50%) | R |
| Water | R |
| Xylene | RC |

R = Recommended, little or no visible damage
 Dis = Slight discoloration; RC = Recommended Conditional

MIXING GUIDELINES

Pre-condition **ECO Epoxy** at 65-85° F for a minimum 24 hours before using. Thoroughly pre-mix Side B before using to place pigmentation evenly into solution (not required for natural color material). Pre-mix drums with a drum mixer and pails with a Jiffy mixer for a minimum of 3 minutes until a homogeneous mix with no streaks is achieved. Accurately measure 1 part A and 2 parts B by volume in separate, clean, graduated, plastic containers. Put the Side A into the mixing bucket first and then add Side B into the centre. Mix the two components together with a Jiffy mixer for 2 minutes. Keep mixing blade submerged and do not create a vortex action to avoid drawing air into the mix. Keep mix batches sizes to 3 gallons or less to allow application of mixed product within the pot life of the material. After mixing, immediately pour the entire bucket of mixed material on the floor and begin application.

APPLICATION GUIDELINES

Surface Preparation

Surfaces must be properly prepared, clean and sound, prior to application of **ECO Epoxy**. Prepare surfaces by mechanical means such as sandblasting, shot blasting, grinding, etc. Remove any dirt, dust, oil, grease, laitance, rust, scale, paint, curing compounds, acids, chemicals or any other contaminants. Remove oil and grease with a degreaser.

Old Concrete: Apply a thin prime coat of **ECO Epoxy** to fill voids, avoid pin holing and ensure a smooth surface coating.

New Concrete: Allow new concrete to cure for a minimum of 30 days, prior to application of **ECO Epoxy**. Apply a thin prime coat of **ECO Epoxy** to reduce out-gassing.

Wood: Sand or mechanically abrade wood substrates after sanding or abrading. Wipe surface with solvent or cheesecloth to remove all dust and debris. A thin prime coat of **ECO Epoxy** is generally recommended.



Carbon Steel and Aluminum: Prepare metal to a “near white metal” equivalent to SSPC10 or NACE 2 by sandblasting or other mechanical abrasion methods. A 3 mil blast profile is recommended.

Substrate Repairs

Repair all spalls and cracks to ICRI standards. Fill control joints, cracks and spalls with **ECO Weld** Rapid Set Polyurea Joint and Crack Seal. Honor all expansion joints.

Application Methods

Pour mixed material on to the floor immediately after mixing and pull out to desired mil thickness using a notched squeegee. Apply **ECO Epoxy** in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness. Backroll to remove any squeegee marks and achieve a smooth finish. Apply top coat within 24 hours of base coat application. Contact the manufacturer for further application guidelines. ECO Epoxy may be top coated with ECO Pro Polyaspartic in applications where 100% UV stability is required.

NON-SLIP FLOORING SYSTEM

1. Apply a thin prime coat of **ECO Epoxy** (6-15 mils) to the prepared floor surface.
2. While prime coat is still tacky, apply **ECO Epoxy** base coat. Immediately broadcast with aggregate to excess (clean, dry sand, quartz, aluminum oxide, crushed glass, shredded rubber, etc).
3. Allow base coat to set, then sweep off excess aggregate and apply top coat. Apply top coat within 24 hours of base coat application.

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.

REPAIRS AND MAINTENANCE

Small repairs to cuts in the coating can be made by brushing on **ECO Epoxy**, after scuffing the damaged area with a sander. Re-applying **ECO Epoxy** after 24 hours of initial application generally requires the use of a primer or sanding to achieve optimum adhesion.

CLEAN-UP AND DISPOSAL

Clean skin with soap and water; use solvent such as MEK, xylene or toluene to clean equipment and tools. Cured product may be disposed of without restriction. Un-cured hardener and resin portions should be mixed together and disposed of in a normal manner.

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

SAFETY

Refer to Material Safety Data Sheets.