



PATCH & REPAIR KIT - ECODUR+ TECHNICAL SHEET

PRODUCT OVERVIEW

Ecodur+ is an off-white, primerless, roof coating that can be used as a standalone or as a base coat that improves the performance of a variety of top coat choices. Due to its superior bonding ability, it can be applied without pressure washing in most instances, while achieving a better bond than most primers, and better bleed protection than available bleed blockers. It soaks in and self-levels during curing to create a smooth surface and hide substrate blemishes.

INTENDED USAGE

Use Ecodur+ as a standalone or base coat on a variety of substrates, including: acrylic (& cementitious), metal, mineral cap, asphalt, concrete, single ply (TPO, PVC, CSPE, EPDM), and more.

PHYSICAL PROPERTIES AND PERFORMANCE CHARACTERISTICS

DURABILITY - ASTM C627: 16,000 passes of an average sized car. No debonding or deterioration

ESTIMATED TENSILE STRENGTH - ASTM D412: 900 PSI (6MPa)

PULL-OFF STRENGTH FROM STEEL - ASTM D4541: 1000 PSI with 95-100% cohesive

ESTIMATED ELONGATION - ASTM D412: 20-60%

HEAT RESISTANCE - CONTINUOUS: 212°F / 100°C

MINIMUM SERVICE TEMPERATURE: -20°F to -40°F / -30°C to -40°C

WATER ABSORPTION - ASTM D570: 0.3% - 30 g/m² @ 185°F / 85°C for 30 days

PERM RATING - ASTM D1653: USA PERM rating of 5 PERMS for 0.030 to 0.050 inches thickness

UN-CURED PRODUCT PROPERTIES

MIX RATIO: Use entire kit

POT LIFE: Less than 45 minutes

CURE TIME: 12 hours to top coat. 24-36 hours to full cure

RECOAT WINDOW: Endless. Ecodur+ will always re-bond to itself

SOLIDS: 100% solids, solvent free, VOC-free

COMPONENTS: Part A: castor oil, hydrated gypsum - Part B: Polymeric (MDI)

FINISHED PRODUCT CHARACTERISTICS

ODOR: Mild, pleasant vegetable oil and gypsum odor prior to curing - disappears completely upon full cure.

FIRE PERFORMANCE: When tested in accordance with CAN/ULC S102-M88 standard method of test for surface burning characteristics of building materials and assemblies, the flame spread classification is "1" or "A" with a flame spread value of 15 for the product used as a deck coating. For reference, untreated Red Oak is a combustible material that has a flame spread classification of 100 and inorganic reinforced cement board is a non-combustible material that has a flame spread classification of 0.

WATER RESISTANCE: High resistance to water, sea water, hot or cold.

SOLVENT RESISTANCE: High resistance to most petro-chemical solvents with few exceptions. Refer to chemical compatibility charts.

UV RESISTANCE: UV causes the material to discolor. No substantial degradation of coating has been found on 25 year field samples or 1500 hour weatherometer tested samples.

ADHESION: Bonds to most roofing substrates, steel, concrete, wood, asphalt, tar, paints, itself and other Ecodur products, etc.

ADHESION TESTING (BEFORE APPLICATION): For best results, conduct an adhesion test (Tietex T272 or 325) to test the surface and to ensure no contaminants are present before application.

APPLICATION INSTRUCTIONS: Ensure that substrate is clean and dry. Warm unmixed kits to at least room temperature to make mixing easier. Do not mix at temperatures above 110°F (43°C). For best results, mix between 65 and 90°F (18 and 32°C). Mix Part A well. Pay extra attention to corners (it can help to use a plastic scraper or the edge of a stir stick). Fold over the Part A pouch and roll toward the Part B pouch like a tube of toothpaste. Apply pressure at the seam between the two pouches until it bursts. Continue applying pressure until the entire seam is broken so that no product gets caught in the seam. With all the product in the Part B section, shake vigorously to fully mix Part B into Part A. Release the rolled-up Part A side of the pouch and continue shaking vigorously and/or kneading to ensure all of Part A and Part B are completely and thoroughly mixed. Cut the corner and pour product around the repair area or into a separate container. Thickeners/foaming agents such as crushed walnut shells can be stirred into the mixed product in a separate container. Apply with a chip brush. Use all mixed product within 35 minutes. At room temperature, cure time is approx. 12 hours to topcoat (optional), and 24-36 hours to full cure (less time on hot days).

STORAGE: Do not allow product to freeze. Store in a cool, dry place.

SHELF LIFE: Unopened containers have an undetermined shelf life. It is recommended that you use all product within 1 year. If product has been stored longer than 6 months, extra pre-mixing (Part A, before bursting Part B seam) will be required to free settled gypsum.