ECODUR 201 ROOF COATING TECHNICAL SHEET

PRODUCT OVERVIEW

Ecodur 201 is a white, primerless roof coating that can be used with a variety of topcoats for aesthetics, cooling, and customization. Due to 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 self levels during curing to create a smooth surface and hide substrate blemishes.

INTENDED USAGE

Use Ecodur 201 on a variety of substrates including: acrylic, cementitious, metal, mineral cap, BUR, asphalt, concrete, single play (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: 50-100%

HEAT RESISTANCE - CONTINUOUS: 212F / 100C

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

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

PERM RATING - ASTM D1653: USA PERM rating of 5 PERMS for 0.030 to 0.050 inches thickness (30 to 50 mils)

UN-CURED PRODUCT PROPERTIES

MIX RATIO BY WEIGHT: 83 parts catalyst (part A) 17 parts resin (part B)

MIX RATIO BY VOLUME: 4.25:1 A:B (volume measurements are subject to variations during mixing and stirring that may entrain air)

POT LIFE: Less than 45 minutes. Shortens in higher temperatures

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

RECOAT WINDOW: Endless. Ecodur 201 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 - disappates completely upon full cure.

FIRE PERFORMANCE: When tested in a 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 after prolonged exposure. No substantial degradation of coating has been found on 25 year field samples or 1500 hour weatherometer tested samples.

ADHESION: Bonds to steel, concrete, itself, wood, asphalt, tar, paints, etc.

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

STANDARD APPLICATION: Mechanically mix all of Part A. Cordless drill mixers are not recommended. Double auger mixers or other powered concrete mixing drill is recommended. After pre-mixing part A, add full part B while mixing.

Continue mixing until fully combined, 2-3 minutes. Pre-plan your work area and make sure you can use all mixed product in 30-40 minutes. Dump product into work area and spread with notched squeegee, backroll immediately. There is no need to maintain a wet edge as product will continually bond to itself.

THICKENING: When thicker product is desired for crack filling or building up, use any of the pre-approved thickeners to achieve the thickness desired.Thickeners include: Crushed walnut shell, fumed silica, crushed polyethylene, and powdered polystyrene.

STORAGE: Do not allow stored product to freeze. Store in a cool, dry place. Part B must be kept free of moisture. Keep container closed. Part B absorbs moisture from the air if left opened and can produce CO2 gas, which can cause pressure build up.

SHELF LIFE: Unopened containers have an undetermined shelf life. It is recommended to use all product within 1 year.