

ECODUR 201R TECHNICAL SHEET

PRODUCT OVERVIEW

Ecodur 201R is an ultra-durable waterproofing coating that outperforms other coatings in a wide range of applications — from concrete to metal and a variety of other substrates. It self-levels and has no maximum thickness, making it ideal for blister filling and leveling low spots. It can be used with a variety of topcoats or broadcasts for aesthetics, customization, and specific project needs. Ecodur 201R is available in Natural White, Battleship Gray, and can be customized to better suit any topcoat.

INTENDED USAGE

Ecodur 201R is a high-performance waterproofing coating designed for use on concrete, metal, and a wide range of industrial and commercial applications.

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: 20-100%

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

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

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

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

UN-CURED PRODUCT PROPERTIES

MIX RATIO BY WEIGHT: 83 parts catalyst (Part A), 17 parts resin (Part B). *Always use full kits*

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

CURE TIME: 12 hours or less to top coat. Can be top-coated even when tacky. 24-36 hours to full cure

RECOAT WINDOW: Endless. Ecodur 201R 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 - dissipates 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 concrete, existing Ecodur products, steel, wood, asphalt, tar, paints, 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.

STANDARD APPLICATION: Mechanically mix all of Part A. Cordless drill mixers are not recommended. Double auger mixers or low speed mud mixing drills are 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 continuously bond to itself. A minimum thickness of 30-50 mils is recommended on most applications.

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. After 6 months of storage, shaking may be required to free settled ingredients.