

ultra seal

decco Ultra Seal is a 2 component 65% solids, WB polyurethane designed as a non-yellowing clear coating for microcement, concrete, other cement based overlays, or as a top finish coat on epoxy systems. The high performance clear top coat, available in gloss or Matte finish, provides the durability of a solvent base system with the ease and safety of a low VOC (73 g/L) water base system. Unlike nearly all polyurethanes, decco Ultra Seal has remarkable properties related to vapor permeability that permit its use in an exterior setting.

decco Ultra Seal is a two-part, water-based polyurethane that forms a high-solids coating. decco Ultra Seal is UV stable, non yellowing and forms a high build film that preserves and protects any interior or exterior concrete, masonry or stone surface. decco Ultra Seal is an extremely durable, chemical-resistant barrier coating, without the odor typically found in solvent-borne sealers. Formulated to seal and protect concrete and masonry that is subject to heaviest use conditions, decco Ultra Seal is chemically resistant and highly durable.

Product Benefits

- Ideal for high-traffic areas like interior lobbies, food services
- Designed for interior and exterior applications
- Compatible with all stone and masonry surfaces
- Inhibits the passage of water or any other liquid
- Resists peeling, flaking, blistering of properly prepared substrates
- Will enhance the color of the substrate giving a “wet” look
- Inhibits the growth of mold and mildew
- Excellent UV resistance and exterior durability
- Excellent resistance to chemicals, stains and black tire marking

Limitations and Precautions

- Do not apply decco Ultra Seal if the surface or ambient temperature is below 45 °F, above 95 °F, or if the temperature is expected to fall below freezing (32 °F) within the 24-hour curing cycle.
- Failure to remove dirt and debris from the surface or failure to properly clean the surface before the application will result in poor adhesion.
- DO NOT mix more sealer than can be used in a 45-minute period. Pot life is 1 hour.
- Do not over apply decco Ultra Seal (wet film thicknesses in excess of 6 mils). This may cause bubbling or foaming in the finish coat, creating a white, hazy appearance.
- For best results on porous surfaces, at least two coats of decco Ultra Seal is recommended. The first coat should be a thin coat of decco Ultra Seal cut 1:1 with water. Subsequent applications must be applied within four to eight hours of the previous coat to insure proper adhesion. If a primer is desired, water based epoxy primers can be used.
- CAUTION: Do not seal container after mixing parts A & B.

Technical Data

Please refer to the corresponding MSDS for hazard-related information.

Mix ratio 10:1

Color _____ Liquid, clear

Odor _____ Mild

Solids Content (by wt.) _____ High gloss = 60%. Satin =55%

Density _____ approx. 9 pounds per gallon when mixed

Flash Point _____ 200 °F (93.3 °C)

Viscosity _____ 50-100 cps.

Exterior Durability _____ Excellent

Water Resistance _____ Excellent

Chemical Resistance _____ Excellent

Property Comparison

Gloss Coating Matte Coating | Pendulum Hardness Development @23 °C/50% RH

1 Day _____ 37.Seconds _____ 37.8 Seconds

5 Day _____ 173.1 Seconds _____ 154 Seconds

7 Day _____ 183.9 Seconds _____ 162 Seconds

Approx. Pot life at 23 °C — 2 hrs. 30 mins — 45 mins.

Approx. Dry Time— 7.5 hrs @23 °C/50% RH — 1 hr. 30 mins. @23 °C/50% RH

Chemical Resistance—Equal to solvent-borne Equal to solvent-borne

VOC, g/L _____ <10 _____ <10

Approx. 60° Gloss — 90 _____ <10

Shelf Life and Storage

decco Ultra Seal has a shelf life of one year. Store product indoors, away from heat or direct sunlight. Do not allow product to freeze.

decco
The Wow Surface

Pre-Application

1. Surface preparation: When using this sealer, the surface must be structurally sound and clean—free of dirt, grime and other foreign substances like oils, silicones, all other waterproofing materials, form release agents, curing and parting compounds, and any sign of efflorescence. Surface also must be completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film
2. Mixing ratios, surface moisture, application method, and temperature at the time of application play a large role in the integrity and long-term durability of this sealer. We strongly recommend sampling and testing this material prior to large-scale application.
3. If aggressive moisture movement on interior concrete is suspected, exact moisture movement levels can be measured using a moisture test kit in accordance with ASTM D4263 standards, following the manufacturer's instructions. Moisture measurements of four pounds and below are acceptable. If measurements fall outside of this range, decco Ultra Seal should not be applied.
4. Hard troweled burnished concrete must be chemically or mechanically prepared to promote proper adhesion. Extremely dense or burnished surfaces should be slightly abraded to better accept decco Ultra Seal.
5. Blue Trade Building Materials Inc, utilizes the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying decco Ultra Seal. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart.
6. decco Ultra Seal should only be applied to substrates above 50 °F and below 90 °F.

Application

decco Ultra Seal should be applied only after the concrete has fully cured, approximately 28 days.

Warning! Do not apply decco Ultra Seal to fresh concrete.

1. decco Ultra Seal is not recommended for application over surfaces previously painted or sealed with other sealers.
2. Before applying the product, test decco Ultra Seal in an inconspicuous area for desired results. For application questions, contact Blue Trade Building Materials Inc.
3. The following mixing instructions for decco Ultra Seal must be strictly adhered to. decco Ultra Seal is packaged in pre-weighed ratios for easy mixing. Add the entire contents of Part B (cure) to the entire contents of Part A (resin) in an open container. Mix well. decco Ultra Seal will initially turn white when mixed, but will dry clear after 4-8 hours, depending on application thickness, temperature, and humidity. DO NOT mix more sealer than can be used in a 45-minute period. Before decco Ultra Seal dries clean equipment with water or solvent.

4. decco Ultra Seal is best applied with a high-quality, 1/4-inch short nap roller. Microfiber applicator pad, or T-bar applicator, followed by a spiked roller.
5. decco Ultra Seal, should not be applied at film thicknesses greater than 5 mils wet (3 mils dry) per coat.
6. If applying to extremely porous surface (like bead-blasted concrete), test a small amount of the sealer in an inconspicuous area to determine the number of coats required for adequate coverage.
7. For interior applications, the final dry film thickness should not exceed 20 mils in thickness. For exterior applications, the final dry film thickness should not exceed 6 mils in thickness.

Coverage Rate and Drying Times

Coverage rates may vary depending on the texture, age, and condition of the concrete, the application method, and other local conditions. We recommend applying two coats of decco Ultra Seal.

- Smooth Finish – Material usage is 600-800 square feet per gallon/coat.
 - Rough or Broom Finish – Material usage is 400-600 square feet per gallon/coat.
- Drying times will vary depending on surface porosity, temperature, humidity and local conditions.*
- Recoat – Surface can be recoated four to eight hours after each application, but less than 24 hours.
 - Light traffic – light traffic can be allowed 24 hours after final coat.
 - Vehicle traffic – Vehicle traffic – can be allowed one to two days after final coat, depending on temperature.

Package Sizes

decco Ultra Seal is available in pre-weighed quart, gallon, and five gallons (actually 4.8) kits.

Applicable Standards

decco Ultra Seal complies with the following regulations and requirements:

- ASTM D2047 – exceeds slip-resistance requirements
- ASTM D523 for gloss Gloss = 90, satin = < 10
- decco Ultra Seal conforms to all California air quality requirements

Product Handling

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using the product.

Warranty

decco Ultra Seal, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from the use of this product. If you have any questions, please contact Blue Trade Building Materials Inc.



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