



DURAPRIME WB

WATER-BASED EPOXY PRIMER FOR EPOXY AND URETHANE COATING SYSTEMS

PACKAGING

0.81 gal (3.1 L)

Code: TD2355099

4.75 gal (18 L) Unit

Code: TD23555999

CLEAN UP

Clean tools and application equipment immediately with water or a blend of butyl cellosolve and water. Clean spills or drips with water while still wet. Hardened DURAPRIME WB will require mechanical abrasion for removal.

SHELF LIFE

1 year in original, properly stored, unopened package

DESCRIPTION

DURAPRIME WB is a two-component, penetrating, water-based epoxy primer. It is recommended for use as a primer with various Euclid Chemical water based epoxies, 100% solids epoxies, and urethane coatings.

PRODUCT CHARACTERISTICS

PRIMARY APPLICATIONS

- Clean rooms
- Laboratories
- Concrete block
- Walls & barriers
- Warehouses
- Hospitals
- Schools
- Bridge abutments
- Parapets

FEATURES/BENEFITS

- Can be used on damp concrete
- Fast drying, yet has long pot life
- Very low odor - excellent for indoor use
- Reduces concrete porosity and outgassing

COVERAGE

	ft ² /gal (m ² /L)
Bare Concrete	300 to 400 (7.4 to 9.8)
Concrete Block	200 to 350 (4.9 to 8.6)
Coated Surface	350 to 450 (8.6 to 11.0)

Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

*Material properties @ 75 °F (24 °C) and 50% RH

Test Method	Test Property	Values
N/A	Dry to touch	2 to 4 hours
N/A	Pot Life, 2 gal (7.6L)	6 to 8 hours
N/A	Mixed Solids (as supplied)	32%
N/A	Mixed Viscosity	300 to 400 cps
N/A	VOC Content, mixed	83 g/L

DIRECTIONS FOR USE

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. See note in "Precautions/Limitations" section if coating is to be placed over old/existing epoxy or urethane coatings. New concrete and masonry must be at least 28 days old. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralize the substrate. The Concrete Surface Profile (CSP) should be equal to CSP 2-5 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM C1583, and the tensile pull-off strength should be at least 250 psi (1.7 MPa).

Do not apply epoxy or urethane coatings if there is excessive moisture in the concrete, or if the moisture vapor emission rate (MVER) is high. Before application of DURAPRIME WB, perform either of these tests: ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes, or ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. If the relative humidity is 70% or greater, or the MVER is 3 lbs/1000 ft²/24 hrs or greater, use a moisture mitigation system such as Dural Aquatight WB instead of DURAPRIME WB. After surface preparation and moisture testing, a test section application is recommended to confirm good adhesion and compatibility of the coating with the surface, and to confirm appearance and aesthetics.

When coating steel, all contamination should be removed and the steel surface prepared to a "near white" finish (SSPC SP10) using clean, dry blasting media.

Mixing: Mix DURAPRIME WB using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 1 minute each. Combine all of Part A with all of Part B in a 1:5.5 ratio by volume, then mix thoroughly for 3 minutes. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing. To keep aeration to a minimum, the recommended mixing paddles are #P1 or #P2 as found in ICRI Guideline 320.5R-2014. Allow the mixed, milky looking, DURAPRIME WB to stand for 20 minutes before use. This also allows for any air in the mix to be released.

Application: DURAPRIME WB can be applied using a short nap roller, magic trowel/squeegee, brush, or an airless spray. The initially milky appearance will dry clear. Subsequent epoxy or urethane coatings may be applied as soon as the DURAPRIME WB has become tack free (typically 2 to 4 hours at 75 °F (24 °C)), but no later than 24 hours after primer application. When top coating with moisture-sensitive materials like EUCOTHANE, ensure that the DURAPRIME WB is dry to the touch and free of any moisture. If more than 24 hours passes between applications, lightly sand the primer, then perform a solvent wipe over the area using acetone. Allow the acetone to fully evaporate before applying the subsequent coating.

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.

PRECAUTIONS/LIMITATIONS

- Store DURAPRIME WB indoors, protected from moisture, at temperatures between 50 °F and 90 °F (10 °C and 32 °C)
- Surface and ambient temperature during coating applications should be between 50 °F and 90 °F (10 °C and 32 °C)
- Material temperatures should be at least 50 °F (10 °C) and rising
- Do not apply DURAPRIME WB if surface temperature is within 5 °F (3 °C) of the dew point in the work area
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin DURAPRIME WB
- When a vapor barrier is utilized in on-grade applications of DURAPRIME WB, it must be installed directly under the slab
- Depending on the condition of the substrate, minor surface defects can appear in the coating when applied. Proper surface prep, patching of substrate imperfections, and priming will ensure a better overall finish.
- If coating over old/existing epoxy or urethane coatings, or if more than 24 hours elapses between coats: sand the previous coat, wipe clean, and proceed with coating operations. If old/existing coatings are peeling, flaking, etc., all unsound material must be removed prior to new coating applications.
- Application of a test area is recommended to confirm final appearance and texture of the system with the end user
- Thicker than recommended applications may result in the coating remaining soft/wet/tacky for longer than the times found on this data sheet, and can cause blistering, or a yellow cast to the film
- Application of DURAPRIME WB in high humidity (>90% RH) environments may result in adhesion problems with subsequent coatings. A test area should be applied to ensure proper results.
- DURAPRIME WB is not to be used as a finished/aesthetic coating
- Concrete surfaces may darken and give a “wet look” effect after application
- In all cases, consult the product Safety Data Sheet before use

Rev. 04.22

WARRANTY: The Euclid Chemical Company (“Euclid”) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid’s installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid’s products for the Buyer’s intended purposes.