



DURAL EPOXY PRIMER

100% SOLIDS EPOXY PRIMER FOR EPOXY AND URETHANE COATING SYSTEMS

DESCRIPTION

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

PRIMARY APPLICATIONS

- Schools
- Laboratories
- Clean rooms
- Warehouses
- Hospitals

FEATURES / BENEFITS

- Fast drying
- Non-flammable
- Low odour
- Low VOC

TECHNICAL INFORMATION

MATERIAL PROPERTIES @ 24°C AND 50% RH	RESULTS
Mix Ratio (A:B by vol)	1:1
Mixed Viscosity, cps	300 to 400
Gel Time (100 gms.)	30 to 40 mins
Pot Life	10 to 20 mins
Mixed Solids (% by wt)	100
Tack Free Time	3 to 4 hours

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

DURAL EPOXY PRIMER is available in 10L and 20L sets.

SHELF LIFE

2 years in original, unopened containers.

COVERAGE

4.9 to 6.1 m²/L

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

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 neutralise the substrate. 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 1.7 MPa.

Do not apply epoxy or urethane coatings if there is excessive moisture in the concrete or if the moisture vapour emission rate is high. Before application of the coating, ensure the concrete substrate is dry to 75% RH as per BS 8204 and free from rising damp. After surface preparation and moisture testing, a test section application of the coating system is recommended to confirm good adhesion and compatibility of the coating with the surface, and also 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 **DURAL EPOXY PRIMER** using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 1 minute each. Combine Part A and Part B in a 1 to 1 ratio by volume, then mix thoroughly for 3 to 5 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 and use the recommended mixing paddles.

Application: **DURAL EPOXY PRIMER** can be applied using a short nap roller, magic trowel/squeegee, brush, or an airless spray. Subsequent epoxy or urethane coatings may be applied as soon as the **DURAL EPOXY PRIMER** has become tack free (typically 3 to 4 hours at 24°C), but no later than 24 hours after primer application. 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.

CLEAN UP

Clean tools and application equipment immediately with acetone, xylene, or MEK. Clean spills or drips with the same solvents while still wet. Hardened **DURAL EPOXY PRIMER** will require mechanical abrasion for removal.

PRECAUTIONS / LIMITATIONS

- Store **DURAL EPOXY PRIMER** indoors, protected from moisture, at temperatures between 10°C and 32°C
- Surface and ambient temperature during coating applications should be between 10°C and 32°C
- Material temperatures should be at least 10°C and rising
- Do not apply **DURAL EPOXY PRIMER** if surface temperature is within 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 **DURAL EPOXY PRIMER**
- Do not apply **DURAL EPOXY PRIMER** to slabs on grade unless an uninterrupted vapour barrier has been installed under the slab
- Do not apply **DURAL EPOXY PRIMER** if the substrate is subject to excessive moisture vapour drive or hydrostatic pressure
- 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
- **DURAL EPOXY PRIMER** is not to be used as a finished/aesthetic coating
- **DURAL EPOXY PRIMER** may have a yellow cast to the film if applied at higher film builds
- Concrete surfaces may darken and give a “wet look” effect after application
- In all cases, consult the product Safety Data Sheet before use

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