

DURAPLATE 289

HIGH-PERFORMANCE CONCRETE ENAMEL WATER-BASED

DESCRIPTION

TUF-TOP DURAPLATE 289 is a single component, **Low V.O.C., Low Odor** pigmented acrylic coating. Based on Nano Technology, DURAPLATE 289 demonstrates outstanding adhesion to a wide range of substrates, including most coatings. DURAPLATE 289 incorporates a chemical curing mechanism that achieves fast initial water resistance and curing, and continues to harden and cure for 7-10 days after application to give a harder, tougher, finish than conventional water-based coatings and even most solvent-based sealers.

USES & FEATURES

- COMMERCIAL AND HIGH TRAFFIC WALKWAYS
- POOL DECKS
- WITHSTANDS OCCASIONAL PONDING WATER
- EXCELLENT STAIN RESISTANCE & TOUCH-UP
- ATTRACTIVE SATIN/SEMI-GLOSS SHEEN
- MODERATE AUTOMOTIVE TRAFFIC

PREPARATION

- **New or Unpainted Concrete and Masonry** — new concrete must cure for a minimum of 30 days before applying DURAPLATE 289. Concrete must be sound and not crumbling. Dirt, oil, grease, mold, mildew, and all other contaminants must be removed from the surface and the pores of the concrete to ensure that the paint has good adhesion to the substrate. Remove oil, grease, and all other contaminants using a strong detergent, TSP, or degreaser; then rinse thoroughly with water. All mold, algae, and/or mildew should be treated with a 2:1 water:bleach solution, scrubbed, and rinsed thoroughly. Best results will be obtained by pressure washing the surface with at least 3000psi to ensure complete removal of all contaminants. Slick, or smoothly troweled surfaces, must be etched with a 2:1 water:muriatic acid solution until the concrete pores are open and a sandpaper-like (80-100 grit) feel is achieved. Acid must be completely removed after application. **It may be necessary to wet mop the surface, with clean water, to remove all of the residue.** Be certain that there are no silicate sealers or densifiers on the floor. They must be removed prior to application.
- **Over Existing Paint** – All previous coatings must be compatible and in a sound, well-adhered, condition. If unsure, apply a test sample using Duraplate 289 and check dry adhesion, with duct tape, after 7-10 days. All unstable coatings must be removed, down to a sound surface. Must be free from any contaminates--follow cleaning directions for new concrete. Thoroughly degrease, then pressure wash with at least 3000psi to ensure all loose coatings are removed. Allow to dry a minimum of 24 hours before applying the new coating. May not adhere satisfactorily to some alkyds, epoxies, urethanes, silicates, or silicone modified coatings. A test sample application is recommended.

APPLICATION - DO NOT APPLY IF AIR AND/OR SURFACE TEMPERATURE IS 50°F OR BELOW.

Apply with a roller, brush, airless or conventional-type sprayer. Roller nap size from 3/8" to 1/2" with a microfiber or high-quality, shed-resistant, cover. For most applications, "thin" coats are preferred. If applied too heavy/thick the product could mud-crack. Apply the first coat, allow to dry (2 to 4 hours, depending on weather), then apply a second coat. For best results, do not dilute. **2 coats are required for optimal performance.**

DRYING TIME

- Normally dries in 1-3 hours and can be walked on when dry.
- 48 hours are generally recommended before heavy foot traffic.
- Minimum 10 days, or full cure, before automotive traffic.
- Low temperatures and high humidity can extend drying and curing times. Full cure in approx. 7-10 days. Rain or heavy dew/moisture will extend the full curing time.

COVERAGE

Smooth or light broom finish:	3/8" Microfiber roller	1 st coat: 160-180 sf/gal.	2 nd coat: 180-220 sf/gal.
Heavy broom or fresh knockdown:	1/2" Microfiber roller	1 st coat: 150-170 sf/gal.	2 nd coat: 175-200 sf/gal.
Previously coated:	3/8" Microfiber roller	1 st coat: 175-200 sf/gal.	2 nd coat: 225-250 sf/gal.

Apply in thin coats only; over application may result in extended dry times, cracking, and/or poor durability. Coverages can vary, depending upon the texture and/or porosity of the substrate.

LIMITATIONS

- Be sure that new concrete has cured a minimum of 30 days before applying DURAPLATE 289. Ph should be less than 10.
- Do not apply when air or surface temperatures are below 50°F (10°C) or are expected to fall below 50°F before the coating is dry. Low temperatures can significantly affect the cure time of the coating.
- Do not apply to a wet or damp surface, or within 6 degrees of the dew point.
- May not adhere to some alkyds, urethanes or silicone modified coatings.
- Do not apply when rain is expected within 24 hours, or if dew may condense on the surface before DURAPLATE 289 will have a chance to dry.
- Do not allow to freeze. Store above 32°F (0°C).
- **MAX TINT PER GALLON 4/OZ LTB 8/OZ DTB & 16/OZ CTB**

CAUTION: THIS PAINT HAS A SHEEN AND IT WILL GET SLIPPERY WHEN WET. IF THE SURFACE HAS NOT ALREADY BEEN TREATED TO REDUCE SLIP HAZARDS, TUF-TOP RHINO HIDE COARSE SHOULD BE ADDED TO THIS PRODUCT BEFORE APPLICATION TO REDUCE THIS CONDITION.

IT IS THE SOLE RESPONSIBILITY OF THE APPLICATOR AND/OR PROPERTY OWNER/MANAGER TO DETERMINE THE SUITABILITY AND SAFETY OF APPLYING THIS PRODUCT IN AREAS OF PEDESTRIAN TRAFFIC.

TECHNICAL DATA (data below is for white)

SOLIDS/VOLUME	30-32% depending on colorant/tint load
COVERAGE	150-300 sq. ft./gal per coat depending on porosity and texture of substrate
DRY FILM THICKNESS	2.5 – 3.5 Mil (Wet: Approx. 5-7 Mils)
DILUENT	Water
CLEAN-UP	Soap and Water
VOC CONTENT	< 60 GR/LITER
ODOR	Slight
APPEARANCE	COLOR DEPENDENT
GLOSS	Satin/semi-gloss ASTM G523-08; @ 60 deg 38 +/-5; colorant dependent.
LIGHT STABILITY	Excellent ASTM G152-06; 1000 hrs no effect
DURABILITY	Excellent ASTM D968-05; 20Ltr/Mil
WATER RESISTANCE	Excellent TT-C-555B no effect
GASOLINE RESISTANCE	Good 1 hr spot test, recovered
TENSILE STRENGTH	Excellent ASTM D7234-12 substrate failure
BONDING	Good ASTM D7234-12 substrate failure
EPA AIM CATAGORY	FLOOR COATING
C.O.F.* ASTM C-1028-96	0.68 - 0.84 (with Coarse Rhino Hide Skid Resistant Additive 0.72 - 0.92) REF: steel trowel concrete

*COEFFICIENT OF FRICTION WILL VARY DEPENDING UPON APPLICATION METHOD, FILM BUILD, SUBSTRATE PROFILE, AND SURFACE CONTAMINATION. REFERENCE LISTED IS OVER A SMOOTH FINISHED SURFACE.

***There is no guarantee against tire marking/staining. All tires have the potential to leave rubber stains under certain conditions. To avoid this, park on Plexiglas, Lexan, masonite or carpet squares to avoid staining. Do not use rubber-backed mats.

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CAUTION: DO NOT TAKE INTERNALLY. CLOSE CONTAINER AFTER USE. KEEP OUT OF THE REACH OF CHILDREN.

LIMITATION OF LIABILITY: The Manufacturer and/or the Seller warrants that if any goods supplied prove defective in workmanship or material, that Manufacturer and/or Seller shall replace them or refund the purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability and Safety of the product for its intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Manufacturer and/or Seller be liable for incidental, consequential or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Manufacturer and/or Seller for any claims arising out of the use of sale of the product shall be for the User's purchase price.