MARINE INDUSTRIAL COATINGS

TPU-122 NOMAR POLYESTER URETHANE CLEAR SEALER

DESCRIPTION

DURAPLATE TPU-122 NOMAR POLYESTER URETHANE is one of the toughest, most chemically resistant polyester urethanes available and is formulated as a clear sealer for use over epoxy base coat systems. It's extremely high crosslink density yields superior coatings for warehouse and factory floors, aircraft hangers and anywhere a highly chemical and marking resistant surface is required.

PRINCIPAL CHARACTERISTICS

-excellent gloss and color retention
-apply by brush, roller and spray.
-resistant to tire marking-staining
-excellent chemical resistance
-excellent resistance to brake and transmission fluids
-highest hardness, flexibility and impact resistance
-excellent anti-graffiti coating
-excellent dirt release properties

COLOR AND GLOSS

Clear sealer, Custom colors available on special order.
Standard gloss is high.

PHYSICAL DATA

DATA BELOW IS FOR GLOSS CLEAR

Weight per gallon	8.8 lbs.
Solids content by volume	52%
Solids by weight	59%
Recommended dry film thickness	2-4 mils DFT (4 -8 mils WFT)
Theoretical spreading rate	736 sq. ft./gal at 1 MDFT
Minimum time before recoating	Dry to touch, aprox. 12-16 hours-temp dependent
Maximum time before recoating	48-60 hours, scuff sand after 60 hours - temp dependent
Cure to service	5 days at 75° F
Flashpoint	53°F
VOC (as supplied)	3.60 lbs./gal
Shelflife (cool & dry storage)	Minimum 12 months in unopened full container.
Mix ratio	1-1 with 17000 catalyst

COMPLIANCES

Rated "Flammable"

PACKAGING

TPU-122 NOMAR POLYESTER URETHANE is a two package catalyzed system, available is 1 gal cans (2 gl kit) and 5 gal pails (5gl kit). Both 1 gal cans and the 5 gal pails are filled to capacity. Part A (Base Component), and Part B (Catalyst) are packaged separately.

FULL CURE IS 10-14 DAYS, DEPENDING ON TEMPERATURE. PARK ON CARPET OR CARDBOARD SQUARES FOR THE FIRST 2-4 WEEKS TO ALLOW FOR COMPLETE CURING

RECOMMENDED SURFACE PREPARATION

The system is designed for application over 2 part polyamide Epoxy systems withing the re-coat window of the epoxy (SEE EPOXY DATA SHEET FOR RE-COAT TIMES).

INSTRUCTIONS FOR USE

This is a two component system. Completely mix both containes before combining. equal parts of Part A (Base Component) and 17000 Catalyst (Part B). For airless spray application, it may be necessary to add solvents to obtain application viscosity. Use a mid range Urethane reducer. Reduction may result in lower sag resistance, slower cure and thinner films. If thinning is required, add thinner after mixing the components. Very good mechanical mixing of base, catalyst, and thinner is essential.

INDUCTION TIME

None necessary

POT LIFE

2-2.5 hours to double viscosity at 75ºF.

APPLICATION

May be applied with brush or roller for touch-up.For roller application, use a 3/16" -3/8" nap shed proof mohair or microfiber cover with a phenolic core, apply slowly to avoid air eentrainment. With AIRLESS SPRAY, hose should be 3/8" I.D., but a 1/4" I.D. whip end section may be used for ease of application. A maximum length of 100 feet is suggested. Best results will be obtained using a 0.018" - 0.021 tip at 2400 - 2700 p.s.i.

THINNING INSTRUCTIONS

Depends upon application methods. Check with our Technical Department for specific recommendations.

SAFETY PRECAUTIONS

CAUTION: Flammable, vapors and mist are harmful. Make certain that all personnel using, handling, or storing, this material have read and understand the applicable Material Safetly Data Sheet.

CAUTION

Contains flammable solvents. Keep away from sparks and open flames. Use only grounded explosion proof equipment approved by the National Electrical Code. Workmen must use nonferrous (non-sparking) tools, wear conductive and nonsparking shoes in areas where explosion hazards exist. In confined areas workmen must wear fresh airline type respirators, protective clothing and gloves. Avoid contact with skin, and avoid breathing of vapor and spray mist. KEEP OUT OF REACH OF CHILDREN.

FILM THICKNESS & SPREADING RATE

At 2.0 MDFT - 365 sq.ft./gal.
At 3.0 MDFT - 245sq.ft./gal.
At 4.0 MDFT - 185 sq.ft./gal.
NOTE-These figures are theoretical and assume no loss through overspray or other losses.

TYPICAL FILM PERFORMANCE PROPERTIES

Film thickness	3.0 to 4.0 dry mils
Set to touch	1 to 1.5 hrs.
Pot life (double viscosity)	3-4 hours
Initial gloss	
20º	80
60º	96
Hardness	
Pencil	3H
Konig	100
Mechanical properties	
Direct impact	60 in.lb.
Reverse impact	30 in.lb.
Accelerated weathering	
1500 hrs QUV UVB 313	
20º gloss retention	75%
60º gloss retention	96%

South Florida exposure data (45º South, 60º gloss retentiion)

Color	Initial	6 mo.	1 yr.	18 mos.	2 yrs.	3 yrs.	4 yrs.
White	96	94	93	91	90	80	78
Black	93	91	90	88	87	86	82

CHEMICAL RESISTANCE

	At 336 hrs. unless noted otherwise
50% sodium hydroxide	no effect
50% sulfuric acid	no effect
50% potassium hydroxide	no effect
37% hydrochloric acid	blister at 23 hrs.
20% hydrochloric acid	softens film
20% nitric acid	softens film at 36 hrs.
100% acetic acid	softens film at 1 hr.
50% acetic acid	softens film at 2 1/2 hrs.
Methyl ethyl ketone	no effect
Xylene	no effect
Mineral spirits	no effect
1,1-trichlorethane	no effect
Skydrol	no effect
Regular gasoline	no effect
Unleaded gasoline	no effect
Diesel fuel	no effect
Kerosine	no effect
Brake fluid	no effect

*** This coating though resistant, is not a guarantee against tire staining. All tires have the potential to leave staining under certain conditions, especially high performance tires. Park on carpet squares or plexi glass pieces to avoid tire staining.

LIMITED WARRANTY NOTICE

Every reasonable effort is made to apply Marine-Industrial exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace, or at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund MARINE-INDUSTRIAL PAINT COMPANY, INC. MAKES NO WARRANTY OR GUARANTEE, EXPRESS, OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, AND MARINE-INDUSTRIAL PAINT COMPANY, INC. shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from date of shipment. No claim will be considered without such written notice, or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use our products must bear the signature of the Marine-Industrial Paint Company, Inc. Technical Manager.

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