MAP YACHTING PAINT SYSTEMS

TECHNICAL DATA SHEET

N° 27

UNDERCOAT EP 230 -PTFE

FINISHING
Two component

Edition mars 13

TWO COMPONENT EPOXY POLYAMINO-AMIDE LOADED WITH TEFLON®
Suitable in immersion.

PTFE - TEFFLON® is a trade mark of DUPONT DE NEMOURS

FEATURES

Epoxy Polyamide with TEFLON ® for finishing works bright lines of nozzles, areas subject to abrasion or friction, it can also be used for coating grooves spars, edges attacks rudders or keels, propeller planes or ships, etc. ...

Thanks to its surface by successive applications in thin layers (50/60 microns wet) and when it is properly diluted, this system is ideally suited for use in improving the slides, especially for gear speed hulls windsurfing, boat regatta, not staying permanently in the water, because the system does not contain antifouling poisons.

However, depending on the speed capability of the vehicle, this system can be self-cleaning. It is possible to sand to water systems using 3M sponge grains 9-30 microns, to improve the surface finish.

Excellent chemical resistance to fresh water, sea water, grease and most solvents.

RECOMMENDED USES

This system can be applied in 3 layers of 50 to 60 microns wet on wet over a suitable primer, such as system AEROPRIM EP 140, EP 211, or directly in the final coat on the UNDERCOAT EP 215 HB.
The system UNDERCOAT 230 PTFE can not be covered by itself, and in this time well defined and under conditions of very specific applications.

See recovery time to recoat.
Contact our technical department for procedures.

This system applies to the primary AEROPRIM 140, EP 211or WOOD IMPREG 120 systems, UNDERCOAT EP 215 HB. In the case of an application to support old already treated with a polyurethane Topcoat, it is necessary to use the system to finish FLEXIBLE POLYURETHANE LACQUER LOADED WITH TEFLON the UNDERCOAT 230 PTFE.

For any other type of recovery or use, consult our technical department.

SPECIFICATION DATA

COATING TYPE : Epoxy polyamide finishing

COLOR : white

GLOSS : Semi-gloss

COMPONENT : two component

COMPONENT RATIO :
- Volume : 4 Base / 1 Hardener

INDUCTION TIME (at 20°C) : 30 minutes

POT LIFE (at 20°C) : 6 hours

THINNER : EP N°3 (standard) or EP N° 703 (booster in winter)

DENSITY AT 23°C : 1,42% approx.

VOLUME SOLIDS : 52 +/-3%

VOC : 443,4 g/l

THEORITICAL SPREADING RATE :
6,5 to 5,2 Sq.m/L for 80 to 100 dry microns

RECOMMENDED FILM THICKNESS PER COAT :
Dry : 100 to 120 microns
Wet : 210 to 250 microns
values to be divided by 2 if dilution with 50%

DRY TIME :
(at 20°C – 50 to 60 % HR for 20 dry microns) **:**

Dustfree :	1 h 30 with standard hardener
	1 h with fast hardener
to handle :	10 h with standard hardener
	8 h with fast hardener

DRY TIME TO RECOAT :
(at 20°C – 50 to 60 % HR for 20 dry microns) **:**

Minimum:	4 h with standard hardener
	3 h with fast hardener
Maximum:	3 days with standard hardener
	2 days with fast hardener

TEMPERATURE RESISTANCE : 100°C

SURFACE PREPARATION

All surfacse must be free of grease, dust, dry spray, moisture.

UNDERCOAT 230 PTFE must be applied on compatible primer.
UNDERCOAT 230 PTFE is compatible on primer AEROPRIM 140 and WOOD IMPREG 120, and UNDERCOAT EP 215 HB and accept to be recoated by itself

For all other type of coating, contact our technical department.
Application with Spray gun or AIRLESS : 3 coats of 40 dry microns wet on wet per coat.

MIXING AND THINNING

Before mixing components, mix the base portion first to obtain a smooth, homogeneous condition. After mixing the base portion, add the hardener slowly with continued agitation. After adding the hardener, continue to mix slowly.

After 30 minutes of induction time, it's possible to diluate 0 to 50 % of thinner EP N°3 (depends on application conditions or method).

You must check the viscosity, check the viscosity every 2 hours. Don't forget to mix after every dilution.

APPLICATIONS

APPLICATION METHODS		THINNING	TIP SIZES	PRESSURE
SPALTER	NO			
ROLLER LACQUER	NO			
SPRAY GUN	YES	30 to 50%	1,8 to 2	4 to 5 BARS
AIRLESS SPRAY	YES	0 to 20%	0,015 to 0,021 mm	200 BARS

CONDITIONS FOR APPLICATION :
Optimum : 20 to 25 °C for 50 to 70 % HR
Limit : 50 to 30 °C for 30 to 80 % HR

The substrate temperature must be at least 3°C above the dew point to avoid any condensation - consult data of dew point

VISCOSITY : 18 s to 20 s Cup AFNOR n°4

PRECAUTIONS AND SHELF LIFE

See the material safety data sheet and product label for complete safety and precation requirements

PACKAGING : KIT 2,5 or 5 Liters
CLASSE ONU : BASE and FAST HARDENER:1263 **HARDENER:** 1992
SHELF LIFE : 24 months in original unopened cans at + 5 and + 35 °C away from humidity
12 months in tropical climate
FLASH POINT: betwenn 23 and 55°C
LABEL : Base = Xn : Harmful Durcisseur normal = F : Flammable Durcisseur fast = Xn : Harmful




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