



TECHNICAL DATA SHEET

3AG1

VIVPUR ENAMEL

Creation date
Latest update
Rev.

12/01/17
26/03/25
7

GENERAL CHARACTERISTICS		
Glossy two-component polyurethane finishing enamel with excellent weather resistance, maximum resistance to aggressive chemicals, very low flammability, high elasticity, excellent gloss and colour retention, good coverage. The enamel is particularly suitable for composite cycles of: epoxy (primer) - polyurethane (topcoat), to obtain maximum performance of adhesion to the substrate and resistance to aggressive agents in all types of applications: from the painting of industrial machinery to the finishing of elements with special aesthetic and/or resistance features. The product is also designed to maintain its performance even in extreme cold conditions.		
FINAL CHARACTERISTICS		
		NOTE
SPECIFIC WEIGHT	1.35 ± 0.1 Kg/L (A) 0.95 ± 0.1 Kg/L (B) 1.2 ± 0.1 Kg/L (A+B)	
VISCOSITY	R4 3500 cP a 20°C	
SOLID CONTENT	62 ± 1% (by weight) 77 ± 1% (white/ by weight) 46 ± 1% (white/ by volume)	Theoretical
SPREAD RATE: (50 µm dry)	7.5 m²/Kg	Theoretical
BRIGHTNESS	95/100 Gloss	Glossmeter 60°
AVAILABLE DYES	All colors available	
CTALISYS RATIO	50% with HDR3.001/002 (by weight) 65% with HDR3.001/002 (by volume)	
BINDER NATURE	Modified polyester hydroxylate resin	

TECHNOLOGICAL AND RESISTANCE CHARACTERISTICS	
RESISTANCES	
ATMOSPHERIC AGENTS	Really Good
NORMAL INDUSTRIAL ENVIRONMENT	Good
AGGRESSIVE INDUSTRIAL ENVIRONMENT	Really Good
MARINE ENVIRONMENT	Good
HIGH HUMIDITY ENVIRONMENT	Really Good
ALTERNATE WATER IMMERSIONS	Good
CONTINUOUS WATER IMMERSION	Good
ORGANIC ACIDS	Good
INORGANIC ACID	Good
ALIPHATICS COMPOUNDS	Really Good
AROMATIC COMPOUNDS	Good
ALCOHOL	Good
ACID SALTS	Really Good
BASIC SALTS	Good



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OILS AND FATS	Really Good			
TEMPERATURE	Continue: 90°C Peaks: 115-120°C (10-15 minutes)			
SALT SPRAY CORROSION TEST CABINET	> 1200 h (applied on epoxy primer (5BG4) Or epoxy primer tixo(5XG4))			
QUV TEST 220 h (ASTM G 35)	0 h	75 h	150 h	220 h
	89 gloss	83 gloss	71 gloss $\Delta E: 0.32$	65 gloss $\Delta E: 0.35$
ERICHSEN DEEP DRAWING INDEX	7,4 mm (ISO 150/73 - UNI 8900)			
HARDNESS TO PENDULUM	160" (DIN 53157)			
BENDING TEST 4 mm	OK (ISO 1519/89)			

APPLICATION MODALITY	
BRUSH, ROLLER	Recommended only for limited surfaces or for refinishing operations. Dil. 5% with our POLYURETHANIC SLOW THINNER (TH3.1215)
SPRAY	Dil. 10% with our POLYURETHANIC THINNER (TH3.1200). Air Pressure: 3-4 bar Nozzle diameter: 1.5 mm
POT LIFE	3 huors
We recommend not go over 40 dry μm for coat of paint.	

HARDENING	
DUST FREE TIME	40 min
TOUCH FREE TIME	2-4 hours
DEEP DRYING	8-10 hours
COMPLETE DRYING	7 days
<i>Hardening process may be conducted in oven: 80°C for 40 minutes after 20' of flash off. Hardening times can change significantly according to thickness and temperature of the application.</i>	

OVERPAINTING
Touch-ups of 3AG1 (after 8-12 hours) can only be done after sanding.
SURFACE PREPARATIONS
VIVPUR must be applied over a suitable nitro-resistant anticorrosive primer. The best adhesion results of the painting cycle are obtained by using ns. VIVEPOX PRIMER or ns. ACRIVIV PRIMER. The surfaces to be treated must in any case be dry, clean and free of grease.



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FLUORAL

For this specific dyes UV resistant additive must be added to the varnish. For a better final effect, we suggest to apply the topcoat on a white primer for improve the fluorescent effect. Fluorescent dyes tend to bleach at direct contact with sunlight if not protected.

ENVIRONMENTAL CONDITIONS

The substrate and outside temperature must be at least 3 degrees above the dew point. At temperatures above 25-30°C, a suitable retardant thinner or a larger amount of the thinner usually used should be used in order to avoid the formation of dots and bubbles (pinpricks) on the paint film.

TOOLS CLEANING

Tools can be easily cleaned by using our NITRO THINNER (TH4.1000).

STORAGE

In a cool, dry place, protected from direct sunlight and in a well-sealed tin, VIVPUR SMALTO is stable for at least 12 months, the HARDENER for at least 6 months.

Particular care must be taken when storing the HARDENER, which, being susceptible to reacting with atmospheric moisture, once opened must be consumed as quickly as possible, and at the same time stored in a particularly dry place.

The information given in this sheet and founded on our experience are not intended to be fully exhaustive. Whilst we endeavour to ensure that all advices we give about the product (whether in this sheet or otherwise) are correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. It is supposed that every user liberally opts for the products described on this sheet, after verifying suitability according its requirements. This product is intended for use only by professional applicators in industrial, according the advices described on this sheet, the material safety data sheet and the packaging.