



## TECHNICAL DATA SHEET

3AS1

VIVPUR SIGNAL ENAMEL

Creation date  
Rev.

17/01/24  
0

GENERAL CHARACTERISTICS		
A two-component polyurethane finishing enamel with excellent adhesion to the road surface and high resistance to wear, chemicals and weathering. It is suitable for traffic signs, guide lines, pictograms and urban and sports decorations.		
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 2200 cP a 20°C	
SOLID CONTENT	62 ± 1% (in peso) 77 ± 1% (white/by weight) 46 ± 1% (white/by volume)	Theoretical calculation
YIELD (100 µm dry)	4,5-5 m <sup>2</sup> /Kg 45-50 m/Kg	Theoretical calculation
<i>The calculation of linear metres refers to a continuous line with a width of 10 cm.</i>		
BRIGHTNESS	90-95 Gloss	Glossmeter 60°
AVAILABLE DYES	All dyes 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			
OILS AND FATS	Really Good			
QUV TEST 220 h (ASTM G 35)	0 h	75 h	150 h	220 h
	89 gloss	83 gloss	71 gloss ΔE: 0.32	65 gloss ΔE: 0.35
ERICHSEN DEEP DRAWING INDEX	7,4 mm (ISO 150/73 - UNI 8900)			

# Vivcolor s.r.l.



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HARDNESS TO PENDULUM	160" (DIN 53157)
BENDING TEST 4 mm	OK (ISO 1519/89)

<b>APPLICATION MODALITY</b>	
BRUSH, ROLLER	Recommended only for limited surfaces or for refinishing operations. Dil. 5-10% with our POLYURETHANIC SLOW THINNER (TH3.1215)
SPRAY	Dil. 5-10% with our POLYURETHANIC THINNER (TH3.1200). Air Pressure: 3-4 bar Nozzle diameter: 1.5 mm
<i>We recommend not go over 40 dry <math>\mu</math>m for coat of paint.</i>	

<b>HARDENING</b>	
DUST FREE TIME	40 min
TOUCH FREE TIME	2-4 hours
DEEP HARDENING	8-10 hours
COMPLETE HARDENING	7 days
<i>Hardening times can change significantly according to thickness and temperature of the application.</i>	

<b>OVERPAINTING</b>
Touch-ups of 3AG1 (after 8-12 hours) can only be done after sanding.
<b>SURFACE PREPARATIONS</b>
Cement surfaces must be dry, clean and free of crumbling parts or debris that could in any way cause the paint to detach. It is best to make the surface on which the product will be applied rough to facilitate absorption of the paint.
<b>FLUO RAL</b>
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.



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### ENVIRONMENTAL CONDITIONS

Particularly cold temperatures or environments with high relative humidity can slow down or change the characteristics of the system, which is affected during the painting phase by atmospheric conditions. We therefore recommend application and initial drying in environments with a temperature of more than 10-15°C and a maximum relative humidity of 75 %. Light rain, high humidity or the formation of condensation during the 16 hours following application can irreversibly damage the film formation. At temperatures above 25-30°C it is advisable to use a suitable retardant thinner or a larger amount of the thinner normally 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

VIVPUR result stable at least 12 months in fresh and dry environment, its hardener, in same conditions, at least 6 months. Not expose 3AG1 directly to sunlight and store it a well-seal container. More attention must be observed for the storage of the hardener, it reacts with humidity. Once it is open it must be consumed as fast as possible or stocked in dry places.

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. 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.