



TECHNICAL DATA SHEET

SAG1

SMALTO POLIURETANICO HS

(HS POLYURETHANE ENAMEL)

Creation date 07/01/18
Latest update 01/02/21
Rev. 2

GENERAL INFORMATIONS		
<p>High solid polyurethane two-component finishing enamel with excellent weathering resistance, maximum resistance to aggressive chemicals, low flammability, high elasticity and excellent gloss retention.</p> <p>The enamel is particularly suitable for painting industrial cars and car bodywork.</p> <p>It can also be used as a clearcoat or pigmented with colouring pastes.</p>		
FINISHED PRODUCT CHARACTERISTICS		
		NOTES
SPECIFIC WEIGHT	1.15 ± 0,1 Kg/L	
VISCOSITY	R3 1000 cP at 20°C	Brookfield method
SOLID CONTENT	63 ± 1% (weight)	Theoretical calculation
YIELD: (50 µm dry)	8-9 m²/Kg	Theoretical calculation
BRILLIANCE	90/95 Gloss	Glossmeter 60°
VOC gr/l (Dir. 2010/75/EC)	400 gr/l	
AVAILABLE COLOURS	Transparent/all colours	
CATALYSIS	50% with HDR2H097 (by weight) 60% with HDR2H097 (by volume)	
NATURE OF THE BINDER	Acrylic-polyurethane resin	

TECHNOLOGICAL CHARACTERISTICS AND RESISTANCE TESTS	
RESISTANCES	
ATMOSPHERIC AGENTS	Very Good
NORMAL INDUSTRIAL ATMOSPHERE	Very Good
HEAVY INDUSTRIAL ATMOSPHERE	Very Good
MARINE ATMOSPHERE	Good
HIGH HUMIDITY ENVIRONMENTS	Good
ALTERNATING IMMERSION IN WATER	Good
CONTINUOUS IMMERSION IN WATER	Good
ORGANIC ACIDS	Good
INORGANIC ACIDS AND ALKALIS	Good
ALIFATICALS	Very Good
AROMATICS	Good
ALCOHOLS	Good
ACID SALTS	Very Good
ALCALINI SALTS	Good
OILS AND FATS	Very Good
SALT SPRAY TEST	> 2000 h (applied on our epox primer)



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QUV TEST	0 h	75 h	150 h	220 h
	95 gloss	85 gloss	75 gloss ΔE: 0.32	65 gloss ΔE: 0.35
APPLICATION MODE				
SPRAY	Dilution 5-10% POLYURETHANIC DILUENT. Nozzle pressure: 3-4 atm Nozzle diameter: 1.5 mm			
<i>The product must be applied in thicknesses not exceeding 40 micron dry.</i>				
HARDENING				
OUT DUST	40 min			
OUT OF TACT	3/4 hours			
IN-DEPTH	24 hours			
COMPLETE DRYING	7 days			
POT LIFE	2 hours			
<p>Hardening times may vary considerably depending on the thickness applied. A high thickness can compromise deep drying. Temperature can also affect considerably on the hardening, especially on the evaporation of solvents.</p> <p><i>Hardening can also be speed up in an oven at 80°C max. (40'), after a flash off of 40 minutes.</i></p> <p>At temperatures above 25-30°C it is advisable to use a special retardant thinner to avoid the formation of dots and/or bubbles (pin points) on the dried film.</p>				

OVERPAINTING
The product is not suitable for overpainting once applied.
ENVIRONMENTAL CONDITIONS
The temperature of the substrate and exterior must be at least 3 degrees above dew point. Particularly cold temperatures or rooms with high humidity can slow down or change the characteristics of the system, we recommend painting and initial drying in rooms with a temperature higher than 10-15 °C and a maximum relative humidity of 75%. The temperature of the substrate must be at least 3 degrees above the dew point.
SURFACES PREPARATION
VIVPUR HS must be applied on a suitable nitro-resistant anticorrosive primer. The best adhesion results of the painting cycle are obtained by using our VIVEPOX FONDO or our ACRIVIVIV FONDO. The surfaces to be treated must in any case be dry, clean and free of greasiness. Possible retouches of the cured finish (after 8-12 hours) can be made only after sanding.
TOOLS CLEANING
Tools can be cleaned from the uncured product with NITRO ANTINEBBIA THINNER - TH4.1000.



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STORAGE

In a cool and dry place, protected from direct sunlight and in a well sealed tin, VIVPUR HS is stable for at least 18 months, the CATALIZER at least 6 months.

Particular attention must be paid to the storage of the CATALIZER which, being susceptible to react with atmospheric humidity, once opened must be consumed as soon as possible and at the same time stored in particularly dry environments.

The information given in this technical data sheet is indicative and based on our knowledge derived from experience and experimentation and can in no way constitute a guarantee. The purchaser/user decides independently on the suitability of the product for his own requirements in the context of the specific field of use. For safety information please refer to the relevant toxicological data sheet.