# Vivcolor s.r.l.

TECHNICAL DATA SHEET
3AG1
VIVPUR ENAMEL

Creation date 12/01/2017
Latest update 23/12/2020
Rev. 4

| **GENERAL CHARACTERISTICS** |
|---|
| Glossy two-component polyurethane finishing enamel gifted with excellent weather resistance, maximum resistance to aggressive chemicals, very low flammability, high elasticity, excellent gloss and colour retention, good coverage.<br>The enamel is particularly suitable for composite cycles made by: epoxy (primer coat) - polyurethane (top coat) in order to obtain maximum performance in terms of adhesion 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. |

**FINAL CHARACTERISTICS**

| | | NOTE |
|---|---|---|
| SPECIFIC WEIGHT | 1.35 ± 0.1 Kg/L (A)<br>0.95 ± 0.1 Kg/L (B)<br>1.2 ± 0.1 Kg/L (A+B) | |
| VISCOSITY | R4 2200 cP a 20°C | |
| SOLID CONTENT | 62 ± 1% (by weight) | Theoretical calculation |
| SPREAD RATE: (50 µm dry) | 7.5 m²/Kg | Theoretical calculation |
| BRIGHTNESS | 90-95 Gloss | Glossmeter 60° |
| AVEILABLE DYES | All dyes available | |
| CTALISYS RATIO | 50% with HDR3.001/002 (by weight)<br>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 |
| CONTINOUS 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 |
| SALT SPRAY CORROSION TEST CABINET | > 1200 h (applied on epoxy primer (5BG4) Or epoxy primer tixo(5XG4)) |

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| QUV TEST 220 h (ASTM G 35) | 0 h | 75 h | 150 h | 220 h |
|---|---|---|---|---|
| | 89 gloss | 83 gloss | 71 gloss<br>ΔE: 0.32 | 65 gloss<br>ΔE: 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.<br>Dil. 5-10% with our POLYURETHANIC SLOW THINNER (TH3.1215) |
| SPRAY | Dil. 5-10% with our POLYURETHANIC THINNER (TH3.1200).<br>Air Pressure: 3-4 bar<br>Nozzle diameter: 1.5 mm |
| 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 |
| *Hardening process may be conducted in oven: 80°C for 40 minutes after 20' of flash off*<br>*Hardening times can change significantly according to thickness and temperature of the application.* | |

| **OVERPAINTING** |
|---|
| Touch-ups of 3AG1 (after 8-12 hours) can only be done after sanding. |
| **SURFACE PREPARATIONS** |
| VIVPUR must be applied on an nitro-resistant, anticorrosive primer. Best results are performed by using our VIVEPOX primer or our ACRIVIV primer. The surfaces must be dried and cleaned. |
| **FLUO RAL** |
| 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** |
| Surfaces and environment temperature must be 3 degrees over dew point. |
| **TOOLS CLEANING** |
| Tools can be easily cleaned by using our NITRO THINNER (TH4.1000). |

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| **STORAGE** |
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| 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.