



TECHNICAL DATA SHEET

5BG4A

OIL-RESISTANT PRIMER

Creation date 22/09/21
Rev. 0

GENERAL INFORMATIONS		
<p>Two-component, epoxy-polyamide primer with zinc phosphates, corrosion inhibitor for ferrous surfaces, suitable as a primer for difficult metal surfaces (galvanised sheet metal, aluminium, light alloys, etc.) and for treating cement surfaces.</p> <p>This product is particularly suitable where resistance to contact with aggressive oils such as hydraulic oil, motor oil, emulsified oil, diesel oil, acid salts and alkalis is required. It is always recommended to overcoat with our oil-resistant enamel 5AG1A for long-lasting protection.</p>		
PHISICAL AND CHEMICAL CHARACTERISTICS		
		NOTE
SPECIFIC WEIGHT	1.55 ± 0,5 Kg/L (A) 1.45 ± 0,5 Kg/L (A+B)	
VISCOSITY	R4 9500 CP a 20°C	Brookfield Method
SOLID CONTENT	72 ± 1% (by weight) 56 ± 1% (by volume)	Theoretical (A+B)
SPREAD RATE (50 µm dry)	8 m ² /Kg 11 m ² /L	Theoretical
CATALYSIS	20% with HDR5N020/R020 (by weight) 35% with HDR5N020/R020 (by volume)	
BINDER NATURE	High molecular weight epoxy resins, polyamides	

TECHNOLOGICAL AND RESISTANCES CHARACTERISTICS	
RESISTANCES	
DIESEL	Excellent
HYDRAULIC OIL	Really Good (continuous immersion 70°C)
EMULSIFEID OIL	Medium (continuous immersion 70°C)
	Good (continuous immersion 25°C)
MOTOR OIL	Excellent continuous immersion 70°C)
OIL FOR BRAKES	Low (continuous immersion 70°C)
	Medium (continuous immersion 70°C)
ATMOSPHERIC AGENTS	Really Good
NORMAL INDUSTRIAL ENVIROMENTS	Really Good
HEAVY INDUSTRIAL ENVIROMENTS	Really Good
SEA ENVIROMENTS	Good
HIGH UMIDITY ENVIROMENTS	Good
ALTERANTE WATER IMMERTIONS	Really Good
CONTINUOUS WATER IMMERSION	Good
ORGANIC ACIDS	Really Good
INORGANIC ACIDS	Good
ALKALINE	Really Good
ALIFATIC	Really Good
AROMATIC	Good



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ALCOHOLS	Good
ACID SALTS	Really Good
ALKALINE SALTS	Good
FATS AND OILS	Really Good
BENDING 4 mm (ISO 1519/89)	OK
CREOSS-CUT (DIN 53131 - UNI 630) 0=100% adhesion 5= 0% adhesion	0
TEMPERATURES	Resistance is assured between -50°C and +90°C.
CORROSION RESISTANCE (ASTM B 117)	
<p>Dry film thickness: 85 micron - aging 10 days at 25°C After 800 hours blistering phenomenon is absent, the corrosion does not move 2 mm away from the engraving. When overpainted with 2AG2 (ACRIVIV 70.100 series) or 3AG1 (GLOSSY VIVPUR series), 5XG4 resists over 1200 hours to salt mist test. A three layers cycle (400 µm final dry thickness), applied on sandblasted ferrous surfaces and composed by a first coat of 5BG4.SL237 (VIVEPOX E99), an intermediate layer of 5XG4 and a final coat of 2AG2 or 3AG1, resists 1500 in salt mist test without evident defects and lasts a total of 1800 hours.</p>	

APPLICATION MODE	
BRUSH, ROLLER	Dil. 5-10% TH5.1301 (EPOXY THINNER).
SPRAY	Dil. 15% TH5.1301 (EPOXY THINNER). Pressure: 3-4 bar Ø nozzle: 1.5 mm
AIRLESS SPRAY	Dil. 5% TH5.1301 (EPOXY THINNER). nozzle Pressure: 150 bar
HARDENING TIMES	
DUST FREE	30 mins with HDR5R020 40 mins with HDR5N020
DEEP HARDENING	18 hours with HDR5R020 24 hours with HDR5N020
COMPLETE HARDENING	15 days with HDR5N020/HDR5R020
POT LIFE	8 hours with HDR5R020 12 hours with HDR5N020 (with high temperatures pot life time can be lower)
OVEN	40 mins - 80°C (after 20 mins by the application)
<p><i>Hardening times can change considerably according to temperature and thickness of the application. Light rain, high humidity or condensation in the 16 hours after the application can prevent film to form.</i></p>	

OVERPAINTING
Between 8 and 48 hours after applications.
SURFACES PREPARATIONS

Vivcolor s.r.l.



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Dry and clean from all form of types of impurities. Better results can be observed if the surface is sanded.

ENVIRONMENTAL CONDITIONS

Surface temperature must be 3 degrees over dew point. If external temperature goes over 25-30°C we recommend to use an appropriate slow thinner in order to obtain a smooth layer of coat.

TOOLS CLEANING

Tools can be cleaned, by not polymerized product, easily with TH4.1000 (NITRO THINNER).

STORAGE

In fresh and dry places, avoiding direct contact with sunlight and in a well sealed can, 5BG4 remains stable for 12 months. Its hardener, in the same conditions, 6 months.

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 to its requirements. This product is intended for use only by professional applicators in industrial, according to the advices described on this sheet, the material safety data sheet and the packaging.