Vivcolor s.r.l.

TECHNICAL DATA SHEET
5AG1.SL485/SL497/SL498
PITHOSTOP FOOD NON-TOXIC EPOXY ENAMEL

Creation date 29/02/16
Rev. 0

INFORMAZIONI GENERALI
PITHOSTOP is a two-component epoxy-ceramic paint "Benzyl Alcohol Free", free of solvents, free or combined aromatic amines, plasticizers based on Butyl Phthalate, designed for contact with food distributed by VIVCOLOR s.r.l.. All the formulation components of Pithostop are included in the lists of positive substances, admitted and provided for by Italian and European food contact regulations. The product, applied in a workmanlike manner and completely polymerised, complies with the limits provided for by EC regulation no. 1895/2005, regarding the restriction of certain epoxy derivatives in materials and objects intended to come into contact with food species. The product is certified according to D.M. 21/03/1973 (simulants A, B, C, D) and subsequent updates for direct, continuous and prolonged contact with all food substances, both liquid and solid, such as grain, flour, fruit or vegetable puree, vegetable oils, wine, beer, drinking water, slaughtered, fish, etc.. Pithostop finds its greatest use in the coating / glazing of the inside of tanks that store drinking water, cereal silos, tanks or wine jars, tanks for containing vegetable oils, cold rooms, etc.. Pithostop can also be applied as a thick internal coating of steel pipes carrying drinking water or drinking water to be purified, as the product is also certified according to DM 174 of 06/04/2004 and subsequent updates. The coating forms a hard, compact, non-toxic and long-lasting film that is resistant to the aggression of various chemical agents, such as mild solutions of alkalis and acids, brackish water (tested up to 35% NaCl in water) and marine water, motor oil, transport diesel, petrol, methane gas, waste water (sewage). N.B. : Like other materials of this nature and typology, also the polymerized PITHOSTOP film, when put into operation or exposed to the air in an external environment, tends to change colour, dulling and flourishing by the aggressive environmental agents. These phenomena, purely aesthetic, are not an indication of the loss of protection of the coating, a characteristic that remains unchanged. Avoid applications in critical humidity and temperature conditions (use at temperatures not lower than +10°C is recommended). Fitted with SSOG Certificate nr. 18LA00981

CARATTERISTICHE PRODOTTO FINITO

		NOTES
SPECIFIC WEIGHT	1.30 ± 0.05 Kg/L	A + B
VISCOSITY	Data not available	
SOLID CONTENT	100 ± 2% (weight A+B)	Theoretical
YIELD: (300 μm dry)	400 g/m²	Theoretical
On absorbent substrates (such as concrete) consumption can be up to 6-700 g/m².		
OPACITY	85-90 Gloss	Glossmeter 60°

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AVAIABLE DYES	White (SL485), Red(SL497), Yelow (SL498)
CATALYSIS	70 parts of 5AG1.SL485(by weight)2 parts(vol) 30 parts of HDR5.SL485(by weight)1 part(vol)
BINDER NATURE	Epoxy-polyamminic

TECHNOLOGICAL CHARACTERISTICS AND RESISTANCE TESTS	
TEMPERATURE	The non-toxic epoxy enamel is able to withstand continuous temperatures from -50 to +80°C. For temperatures below -50 to +80 °C, the functionality of the coating is not guaranteed.
APPLICATION MODALITIES	
BRUSH, ROLLER	Dil. 0-3% with PURE FRUIT ETHYLICAL ALCOHOL
SPRAY	DiL. 0-3% with PURE FRUIT ETHYLICAL ALCOHOL. With spray gun suitable for spraying high viscosity products.
It is advisable to apply PITHOSTOP in thicknesses of 300µm dry	
HARDENING	
DUST FREE	3- 5 hours
DEEP HARDENING	24 - 36 hours
COMPLETE DRYING	10 days
POT LIFE	60+/-10 min
Curing times may vary considerably depending on the thickness applied. A high thickness can compromise deep drying. The temperature can also have a significant influence on the curing process, particularly with regard to the evaporation of solvents. The temperature of the substrate must be at least 3 degrees above dew point.	
SURFACES PREPARATION	
All surfaces: Degreasing and decontamination. After roughening, careful dedusting. Make sure that the surfaces to be coated are always perfectly free from traces of moisture and in the case of properly primed. **Fibreglass:** Dry sanding or sanding with P120 - P180 sandpaper. After roughening, careful dusting. Before treatment with PITHOSTOP make sure that the surface is completely dry (R.H. ≤ 0.8%). **Steel:** Minimum sandblasting grade SA 2.5 according to ISO 8501/1 for steel with minimum roughness Rz DIN 60 - 100 µm. Subsequent careful dedusting with dehumidified compressed air jet. **Cement:** Clean (free of oils, release agents and any surface contaminants), dry (internal humidity less than 4%), cured (at least 28	

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days for normal Portland cement), then perfectly roughened and dusted and then free of easily detachable brittle particles and efflorescence. Furthermore, before treatment with PITHOSTOP, the total absence of actions generated by the water and by capillarity and water table must be checked inside the cement.
ENVIRONMENTAL CONDITIONS
The temperature of the substrate and exterior must be at least 3 degrees above dew point.
TOOLS CLEANING
Tools can be cleaned from the uncured product with water, alcohol or acetone.
STORAGE
In a cool and dry place, and in a well sealed tin, PITHOSTOP is stable for at least 12 months. In the same conditions as part A, its hardener remains stable for 6 months.