

Technical Data Sheet

HYDROGUARD® Finish AL HG

Serie 159659

PRODUCT DESCRIPTION

Water based epoxy topcoat filled with aluminium, shiny appearance.

INTENDED USES

Particularly suitable as a bicomponent epoxy topcoat for the protection of steel and aluminium in aggressive industrial environments or in presence of casual contact with aggressive solutions of salts, alkalis or dilute acids. HYDROGUARD Finish AL HG can also be used as a topcoat in classes C3, C4 and C5 (according to standard ISO 12944) on various primers. For protective paint system of new works and maintenance activities.

TECHNICAL INFORMATIONS

Product type	Water based epoxy aluminium topcoat			
Colours	Aluminium			
Solids (% +/- 2)	44 (by Volume) 52 (by Weight)	SOV/VOC (g/liter)	<105	Directive 2004/42/CE
Specific Gravity (g/liter +/- 100)	1175	SOV/VOC (g/liter) (calculated)	<105	Directive 2010/75/CE
Flash Point (°C +/- 2)	not flammable			
Appearance	shiny			
Temperature Resistance (°C)	100 (dry) - 120 (peak)			

APPLICATION DATA

Application Range (min - max) Typical	Film thickness per coat in micron		Theoretical spreading rate		Consumption
	Dry	Wet	m ² /l	m ² /kg	g/m ²
	40 - 90	91 - 205	11 - 4.9	9.4 - 4.2	-
	50	114	8.8	7.5	134

Room Temperature	min 10°C	Max 40°C	Relative Humidity	min 5%	Max 80%
Mixing Ratio	4 - 1 (by weight)		3,5 - 1 (by volume)		
Pot life	2 h				
Thinner/Cleaner	clear water (max. 5% by weight)				

Application methods Airless or conventional spray.
NOTE: mechanical stirring the product for at least 5 minutes at low speed before use.

Guideline for airless spray

Pressure at nozzle	15 Mpa (150 kp/cm ² , 2100 psi)
Nozzle tip	0,46 - 0,58 mm (0,018 - 0,023")

Ti.Pi.Ci. s.a.s. di C.M. Pinto & C.

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HYDROGUARD® Finish AL HG**Series 159659****SURFACE PREPARATION**

the substrate must be clean and dry. Surface contamination is to be removed by detergents and fresh water cleaning.

CONDITION DURING APPLICATION

the temperature of the substrate should be min. 10°C and min. 3°C above the dew point of the air. The temperature and relative humidity should be measured in the vicinity of the substrate.

DRYING TIMES

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with: good ventilation (outdoor exposure or free circulation of air), recommended film thickness, one coat on top of inert substrate.

Substrate temperature	Surface Dry ¹	Hard Dry ²	Cured ³	Dry to recoat ⁴	
				minimum ⁵	Maximum ⁶
10°C		2,5 - 3 h	48 h	12 h	-
20°C		1,5 - 2 h	24 h	6 h	-
30°C		1 h	24 h	4 h	-

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- 2 Data resulted by tests and experience in practical applications. A good ventilation can improve the drying time.
- 3 Data resulted by tests and experience in practical applications.
- 4 Recommended data given for recoating with same generic type of paint.
- 5 In case of multi-coat application, drying times will be influenced by the number in sequence and by the total thickness of previous coat applied.
- 6 The surface should be dry and free from any contamination prior to application of the subsequent coat.

Given data must be considered as guidelines only. Actual drying time can only be decided at site, depending on age of existing system, generic types, numbers of coats, thinning, temperature, ventilation, etc.

THIS PRODUCT IS INTENDED FOR PROFESSIONAL USE ONLY

The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Ti.Pi.Ci.'s technical documentation.

STORAGE AND PACKAGING

STORAGE the product should be stored in accordance with national regulations. The best storage conditions are to keep the packages in a dry space provided with adequate ventilation.

SHELF LIFE 6 months at room temperature.

PACKAGING 16 kg comp. A and 4 kg comp. B (20 kg KIT A+B)

HEALTH AND SAFETY

For detailed information on the health and safety hazards and precautions for the use of this product, we refer to the Material Safety Data Sheet.

Disclaimer

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we can not guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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