

# Technical Data Sheet

## HYDROGUARD® HB AL

Serie 160007

### PRODUCT DESCRIPTION

Water based "surface tolerant" two components high build epoxy paint with aluminium.

### INTENDED USES

"Surface tolerant" anticorrosive primer-intermediate-finish coating for protection of steel structures. Particularly suitable for protection of structures placed in CX class (according to ISO 12944 standards) such as offshore platforms, refineries, chemical plants and wind turbines. HYDROGUARD HB AL can be also applied on structures immersed in salt water and is suitable as midcoat in protective systems qualified according to NORSOK M-501 System 7B.

Optimal as a single coat for the protection of industrial machinery which are occasionally in contact with aggressive solutions of salts, alkalis, diluted acids, solvents, oils and grease. This product contributes to the Green Buildings standard credits for LEED certification.

### TECHNICAL INFORMATION

Product type	Water based primer-intermediate-finish			
Colours	Aluminium			
Solids (% +/- 2)	66 (by Volume)	75 (by Weight)	SOV/VOC (g/liter)	<95 Directive 2004/42/CE
Specific Gravity (g/liter +/- 100)	1300		SOV/VOC (g/liter) (calculated)	<95 Directive 2010/75/CE
Flash Point (°C +/- 2)	not flammable			
Appearance	matt			
Temperature Resistance (°C)	100 (dry) - 120 (peak)			

### APPLICATION DATA

Application Range  (min - max)  Typical	Film tickness per coat in micron		Theoretical spreading rate		Consumption
	Dry	Wet	m²/l	m²/kg	g/m²
	60 - 300	91 - 455	11 - 2.2	8.5 - 1.7	-
	125	190	5.3	4.1	247

Room Temperature	min 10°C	Max 40°C	Relative Humidity	min 5%	Max 80%
Mixing Ratio	2 - 1 (by weight)		1,4 - 1 (by volume)		
Pot life	2 h				
Thinner/Cleaner	clear water (max. 5-6% by weight)				

Application methods      Airless or conventional spray, brush or roller.

### Guideline for airless spray

Pressure at nozzle	15 Mpa (150 kp/cm <sup>2</sup> , 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® HB AL****Series 160007****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 <sup>1</sup>	Hard Dry <sup>2</sup>	Cured <sup>3</sup>	Dry to recoat <sup>4</sup>	
				minimum <sup>5</sup>	Maximum <sup>6</sup>
10°C		12 h	48 h	24 h	-
20°C		8 h	24 h	18 h	-
30°C		4 h	24 h	12 h	-

- 1
- 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** 12 months at room temperature.

**PACKAGING** 13,34 kg comp. A and 6,66 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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