

GENERAL FEATURES

This thermosetting powder contains polyester resins cured with fit curing agents specially selected for their superior resistance to UV radiation and outdoor weathering.

This products is part of the category named HIGH DURABLE.

The Inverpul PE/P/HDM were created for coating aluminium components used in architecture and for coating galvanised steel and have all the necessary requirements for approval of the GSB Master Quality specification (licence 152k) and QUALICOAT class 2 category 1 (licence P-1223).

APPLICATION

Due to its special content the product is particularly suggested for exterior coating, also in tropical environment.

ADVISED CYCLES

The surface to be coated must be cleaned from oils, grease or flash rust.

If particular resistance to corrosion or humidity is required, it is suggested the following pretreatment of the surface:

the surface.	
for aluminium	chromate, phospho-chromate
	conversion (DIN 50939) or other
	pretreatment Cr-free Qualicoat or
	GSB approved
for steel	sand blasting or/and iron or zinc
	phosphatising
for galvanised steel	chromatising

HANDLING AND STORAGE

Store at temperatures lower than 30°C; higher temperatures may damage the powder by causing undesired alterations or blobs.

Storage life in original package: 12 months.

TECHNICAL DATA

Code	Int. Method	Range	Ref. Method
P/CL092	Calc.specific gravity(kg/l):	1.477 - 1.537	
P/CL120	Non volatile content(w/w)(%) 3h at 105 øC	100.0 - 100.0	UNI EN ISO 3251
P/CL125	Non volatile content(v/v)(%)	100.0 - 100.0	
P/CL143	1æm Theor.spread.rate (m2/kg):	651 - 677	
P/CL210	Water content (%):	0.0 - 0.0	
P/CS010	Dry film thickness(microns):	60 - 80	UNI ISO 2178
P/CC050	Gloss 60ø :	27.0 - 33.0	UNI EN ISO 2813:2014

WAYS OF APPLICATION

Apply with guns with negative terminal (60/80KV) or triboelectric guns automatically or manually. It is advised to apply the product in layers with the thickness of 60-80 microns and to stove at 190°C for 15 minutes (temperature of the support).

For stoving of the PE/P/HDM products it is possible to use the following combinations of time and temperature:

10 - 20 minutes	200°C (temperature of the support)
15 - 20 minutes	190°C (temperature of the support)
20 - 35 minutes	180°C (temperature of the support)

For stoving use the given indications.

TECHNOLOGICAL FEATURES AND RESISTANCE TESTS

The support used aluminium panel (ALQ-36)

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Technical Data Sheet



31703 - PE/P/HDM BIANCO 9016

Thickness	60 microns			
Stoving	20 minutes at 190°C			
Chemical resistance test by immersing for 48 hours at indoor temperature into:				
hydrochloric acid 10 %	film is intact			
Nitric acid 30 %	matt, but washing off			
saturated hydrogen sulphide	intact			
hydrogen peroxide 40 volumes	intact			
ammonium hydroxide 10 %	intact			
ammonium hydroxide 33 %	intact			
sodium hydroxide 5 %	intact			
tartaric acid 5 %	intact			
citric acid 5 %	intact			
lactic acid 5 %	intact			
ethanol	intact			
N-butanol	intact			
petroleum ether	slightly softened			

The chemical resistance test was carried out on chromatised aluminium.

Code	Int. Method	Range	Ref. Method
P/CM010	Buchholz indentation test:	more than 90	UNI EN ISO 2815
P/CM040	Erichsen cupping test (mm):	more than 5	UNI EN ISO 1520
P/CM050	Direct impact test (cm.Kg):	more than 25	ASTM D 2794; ISO 6272- 2:2002
P/CM051	Reverse impact test(cm.kg):	more than 25	ASTM D 2794; ISO 6272- 2:2002
P/CM100	Crosscut adhesion (2mm)(GT):	00	UNI EN ISO 2409
P/CM230	Resistance to humidity : (Humidity test)	1000 hours later - no blistering, indentation along the cross of maximum 1 mm	UNI EN ISO 6270-2:2005

NOTES

According to the GSB requirements is permitted that the coating cracks after the mechanical tests, but the coating has to be undamaged after the adhesive tape removal.

NOTE TO USER

The information contained in this document while based on evidence and reliable methods can not be considered exhaustive.

This information are current to the date of issuance of this data sheet, therefore is under user's responsibility to verify that the data provided on this sheet are current to the date of the product. The user, under its own responsibility, shall respect all the existing provisions on hygiene and safety and shall verify every time the features and the specific and appropriate way to use the product, cause the respect of the provisions is not under producer's direct control.

The manufacturer does not guarantee nor assume any liability or responsibility for whatsoever harm that might result from a misuse of the product or for damages that have arisen after the product's distribution.

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