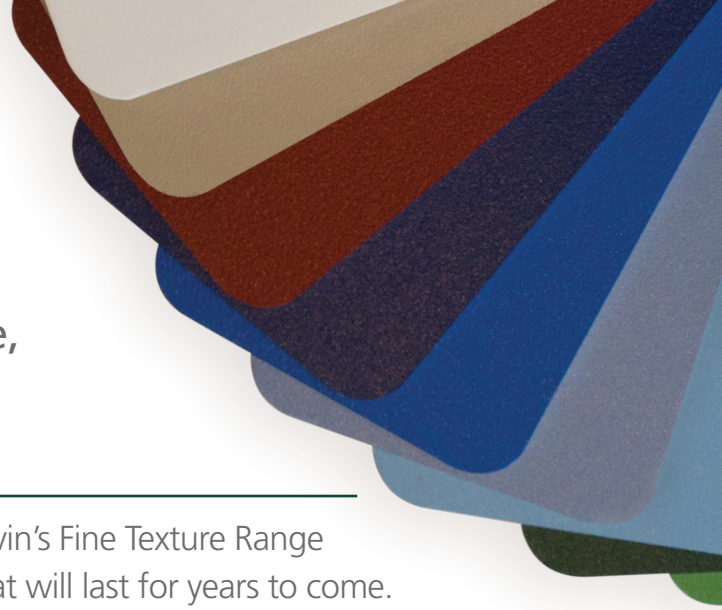
syntha pulvin | ARCHITECTURAL COATING SOLUTIONS



Introducing *Fine Texture Range*

Outstanding performance with a unique, textured finish

When a more sophisticated design is desired, Syntha Pulvin's Fine Texture Range powder coating provides a beautiful and trendy finish that will last for years to come.

General Features

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

The powder forms a decorative film with enhanced outdoor resistance.

Syntha Pulvin *Fine Texture Range* Products were created for coating aluminium components used in architecture and for coating galvanised steel and have all the necessary requirements for approval of the Qualicoat class 1, homologation (n° P-0586 Italy, P-0737 and GSB 280c France, P-1282 Poland, and P-1084 UK).

End-Use Applications

Due to its superior performance formulation, this coating is suitable for exterior applications.

Thanks to its very high scratch-resistance capability, this powder coating can be used for interior application as well.

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:

for aluminium	Chromate conversion pretreatment, alternative conversion systems, anodic pretreatment and chrome-free pretreatment according to Qualicoat and GSB specifications
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: 18 months.

Technical Data

Code	Int. Method	Range
P/CL092	Calc. specific gravity (kg/l):	1.25 – 1.80
P/YC060	Particle size dist. <32µ (%):	48 – 52
P/YC120	Particle size dist. <63µ (%):	88 – 92
P/CL143	1µm theor.spread.rate (m^2/kg):	550 – 780

Application Methods

Apply using guns with a negative terminal (60/80KV), or using triboelectric guns (either automatic or manual).

It is advised to apply the product in layers with the thickness of 60-80 microns and to stove at 180°C (temperature of the support) for 20 minutes.

For stoving of the *Syntha Pulvin Fine Texture* Products, it is possible to use the following combinations of time and temperature:

15–18 minutes	200°C (temperature of the support)
17–22 minutes	190°C (temperature of the support)
20–30 minutes	180°C (temperature of the support)

For stoving, use the given indications.

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Technological Features and Resistance Tests

The support used	aluminium sheet
Thickness	60 microns
Stoving	15 minutes at 190°C

Chemical resistance test conducted by immersing product for 48 hours at indoor temperature into:

Hydrochloric acid 10%	film is intact
Nitric acid 30%	matte, but washing off
Saturated hydrogen sulfide	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	Opposite impact test (cm.kg):	more than 25	ASTM D 2794; ISO 6272-2:2002
P/CM075	Cylindrical mandrell test (5mm):	does not break	UNI EN ISO 1519
P/CM100	Crosscut adhesion (2mm) (GT):	00	UNI EN ISO 2409
P/CM230	Resistance to humidity: (Humidity test)	1000 hours later - no blistering or indentation along the cross of maximum 1mm	UNI EN ISO 6270-2:2005

Note to User

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

This information is current to the date of issuance of this data sheet, therefore is under the user's responsibility to verify that the data provided on this sheet are current to the date of the product.

The user, under the user's 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, because respect the product's hygiene and safety provisions are not under the manufacturer's direct control.

The manufacturer does not guarantee nor assume any liability or responsibility whatsoever for 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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