

## TECHNICAL DATA SHEET

### PE/P/HDM GREY RAL 7016 HR – Code : 23190

Date : june 2019

Indice : A

#### 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 product is part of the category named HIGH DURABLE.

The Syntha Pulvin PE/P/HDM were created for coating aluminium components used in architecture and fulfill the requirements :

- Qualicoat class 2 –catégory 1 (licence P-1544).
- GSB Master Quality (licence 152 K).

#### ADVISED CYCLES :

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

A pretreatment Cr-free, Qualicoat or GSB approved, is required.

#### HANDLING AND STORAGE :

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

#### TECHNICAL DATA :

- Specific gravity :  $1,22 \pm 0,05$
- Theoretical spread rate (gr /m<sup>2</sup>) - 80 µm : 73,2 - 97,6
- Film thickness : 60 – 80 µm
- Gloss level - 60° : 25 - 35
- Particle size distribution :
  - d(v,0.5) : 38-42 µm
  - fines content <12 µm : 14% maximum

#### WAY OF APPLICATION :

Apply with guns with negative terminal (60/80KV) or triboelectric guns, automatically or manually.

#### CURING CONDITIONS :

For stoving of the PE/P/HDM products, the use of the following combinations of time and temperature is recommended :

- 10-20 minutes at 200°C
  - 15-20 minutes at 190°C
  - 20-35 minutes at 180°C
- } Temperature of the support

#### TECHNOLOGICAL FEATURES AND RESISTANCE TESTS :

Support used : aluminium panel ALQ-36  
Film thickness : 60-80 microns  
Stoving : 20 minutes at 180°C

Erichsen cupping test (ISO1520) : >5 mm  
Reverse impact test (ISO6272-2; ASTM D 2794) : >2.5Nm  
Cylindrical bend test (ISO1519) : diameter 5 mm

Resistance to humidity (ISO6270-2) - 1000 hours :

- no blistering
- indentation along the cross of maximum 1 mm.

#### NOTE TO USER :

The information contained in this document, while based on evidence and reliable methods cannot 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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