



NEOKEM SA
 95, Agiou Georgiou Str., Koropi Attikis, 194 00, P.O Box 143
 Tel: (+30210) 6626860, Fax: (+30210) 6625305
 E-mail: info@neokem.gr • Web site: www.neokem.eu

Technical Data Sheet

Neotec PP 210/SP

Low Temperature Curing
 Industrial Fine Texture
 Pure Polyester Powder Coating

> product description

PP 210/SP is a series of low temperature curing powder coatings with textured surface, based on polyester resins selected for their good resistance to atmospheric ageing and UV radiation. It is recommended for industrial indoor and outdoor applications, such as panels, outdoor machinery and equipment, fences, railings etc. Especially recommended for temperature sensitive substrates and heavy parts. All PP 210/SP products conform to RoHS regulations and they are free from heavy metals and TGIC.

Special Properties:

- Fast Curing procedure
- Low Temperature Curing from 150 °C
- Cost & Energy savings, environmentally friendly
- Easy application
- Painting of heat sensitive materials
- Higher productivity
- Ideal for heavy parts
- Good Outdoor Durability
- Fast packaging

> powder characteristics

• Colour	RAL
• Appearance	Fine texture*/mat
• Density (ISO 8130-3)	1.55 ± 0.20 gr/cm ³ (Depending on shade)
• Curing Conditions	10 minutes at 160 °C (Object temperature)

*Texture may vary according to curing conditions and film thickness.

> certifications

Neokem applies certified quality and environmental management systems as per: ISO 9001:2015 and ISO 14001:2015.



> application

PP 210/SP is applied at a thickness of 60-120 microns by electrostatic spray or tribo-charging equipment. Light and very vivid colors (e.g. some reds, yellows, oranges, whites), should be applied at higher than 60 microns film thickness to ensure full coverage and therefore color homogeneity. The curing of the powder occurs in a suitable convection oven. Recommended Curing Index, at a minimum 100.

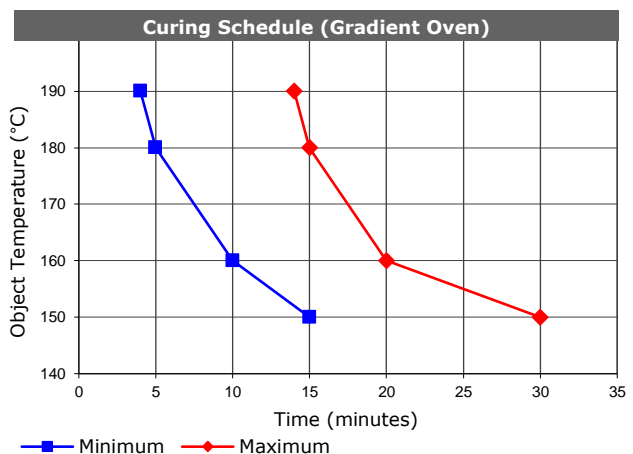
> pretreatment

For galvanized steel a multistage Chromate or Zinc Phosphate pretreatment or controlled sweep blasting is necessary. Attention should be paid at the degassing properties of galvanized steel.

For steel substrates Iron Phosphate or Zinc Phosphate pretreatment is essential.

For improved corrosion protection on steel and galvanized steel, Neotec E20/PR anticorrosive primer over a correctly prepared substrate is recommended.

For aluminum components a full multistage chromate pretreatment, suitable chrome-free pretreatment or suitable pre-anodizing is necessary to obtain optimal anticorrosion protection.



Comments: Gradient oven results may differ from industrial application and are given for guidance only. Gloss and colour difference depend on oven type. For direct flame gas ovens please contact us. Avoid rapid temperature rises.

**NEOKEM SA**

95, Agiou Georgiou Str., Koropi Attikis, 194 00, P.O Box 143
Tel: (+30210) 6626860, Fax: (+30210) 6625305
E-mail: info@neokem.gr • Web site: www.neokem.eu

Technical Data Sheet

Neotec PP 210/SP

Low Temperature Curing
Industrial Fine Texture
Pure Polyester Powder Coating

► physicochemical performance of the coating

Test Conditions

The general properties of the coating are determined on degreased and chromated Aluminum (DIN 50939). The results are based on mechanical and chemical tests that have been carried out under laboratory conditions. Actual product performance will depend upon the conditions under which the product is used.

- Curing Conditions: 10 minutes at 160 °C
- Thickness: 60 - 80 μ

Mechanical Properties

- Adhesion (EN ISO 2409, 2mm): Pass, 0
- Erichsen Cupping (EN ISO 1520) >5mm
- Reverse Impact (EN ISO 6272-1, EN ISO 6272-2, ASTM D2794): >2.5 Nm
- Hardness Buchholz (EN ISO 2815): >80

To obtain full chemical properties and better blanching resistance, it is advised to choose a curing schedule higher than the minimum.

► safety precautions

Neotec PP 210/SP is intended for use only by professional applicators in industrial environments. Before using the product, always read the relevant material data sheet (SDS) that has been provided. If for any reason the SDS is not available, please contact NEOKEM to obtain a copy.

► storage-shelf life

Storage conditions: Keep dry, under 25 °C, in closed boxes. The maximum temperature should not exceed 35 °C.
Shelf life-Recommended Retest Period (RRP): 24 months from the day of manufacture if the above storage conditions are met. After this period the product can be used, provided that the free flow of the powder, the mechanical properties and the appearance of the film have been positively tested. This extension lasts for a maximum of 6 months after the tests. Higher storage temperatures could lead to shorter RRP.

Disclaimer: This technical data sheet is aimed to advise you. This technical information comes from our experience, as well as that of specialized laboratories. Whilst we endeavour to ensure that all advice we give about the product is correct, we have no control over either the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product. The application and the use of our products are placed under your responsibility. This does not constitute a formal or implied guarantee. The user, according to his requirements undertakes full responsibility of application and testing of the products to determine the suitability for a particular purpose. The information contained in this sheet is liable to modification in the light of experience and our policy of continuous product development. Prevailing Language: in the event of any discrepancy between the English original version of this document and any translation in other language, the English version prevails.