



NEOKEM SA
Industrial Coatings for Demanding Applications
 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 200/SP

Low Temperature Cure
 Industrial Pure Polyester
 Fine Textured Powder Coating

> description

Neotec PP 200/SP is a low temperature cure, fine textured (sand effect) thermosetting TGIC free powder coating, based on pure polyester resins especially selected for their good resistance to atmospheric ageing and U.V. radiation. These characteristics combined with good mechanical properties and exceptional scratch resistance, provide coating films showing good outdoor durability and excellent decorative properties. It is recommended for industrial indoor and outdoor applications, such as panels, outdoor machinery and equipment, railings etc.

> powder characteristics

• Colour	RAL
• Appearance	Fine texture/mat*
• Density (DIN 55990/3)	1.67 ± 0.1 gr/cm ³ (Depending on shade)
• Curing Conditions	10-25 minutes at 160 °C (Object temperature)

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

> certifications

Neokem applies certified quality management and environmental system according to the standards: EN ISO 9001:2008 and EN ISO 14001:2009.



> application

Neotec PP 200/SP is applied at a thickness of 60-100 microns, by electrostatic spray or tribo-charging guns. The curing of the powder occurs in a suitable convection oven.

> pretreatment

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

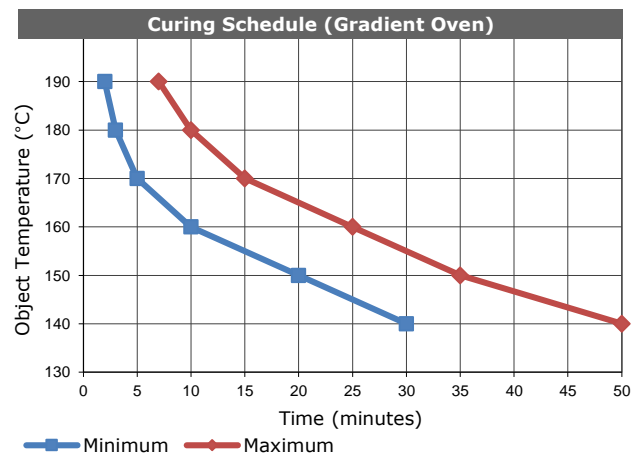
For galvanized steel a multistage pretreatment using chromate or zinc phosphate or controlled sweep blasting is necessary. Attention should be paid at degassing properties of galvanized steel.

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

> storage-shelf life

Storage conditions: Keep dry, under 25 °C.

Shelf life: 24 months from the day of manufacture, provided that the above storage conditions are met.



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



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► 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

- Hardness Buchholz (EN ISO 2815): >80
- Adhesion (EN ISO 2409, 2mm): Gt = 0
- Bend Test (EN ISO 1519): Pass 7mm
- Erichsen Cupping (EN ISO 1520): >5mm
- Direct Impact (EN ISO 6272-1, EN ISO 6272-2, ASTM D2794): >2.5 Nm

Indicative Weathering Performance

- Accelerated Weathering Test QUV A: > 50% gloss retention after 500 hours.

► safety precautions

Neotec PP 200/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.

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.