

## PRIMECOAT SERIES 59

**thermosetting powder coating for outdoor use**  
**polyester**  
**smooth gloss | semi gloss | semi matte | matte**  
**fine texture**  
**rough gloss texture | rough matte texture**

### Typical application

#### Protective and decorative coatings on metal items inside premises:

- Articles for garden
- Car accessories
- Cycles and motorbikes details
- Agricultural machinery
- Domestic items.

### Product details

- Packages: carton with antistatic PE bag liner, 20 kg, 5 kg or Big Bag for approx. 500 kg, net
- Storage Stability: 24 month from manufacture (see printed date on product label)
- Storage temperature: <25°C
- Specific Gravity (ISO 8130-2): smooth 1.50–1.65 g/cm<sup>3</sup>  
rough/fine texture 1.50-1.75 g/cm<sup>3</sup> depending on pigmentation
- Moisture content (ISO 8130-7): <0.4%
- Particle size distribution (ISO 8130-13):
  - fine fraction up to 10 µm in size: <10%
  - base fraction up to 32 µm in size: 25-45%

### Gloss level

- Smooth gloss: 75–100\*
- Smooth semi gloss: 60–75\*
- Smooth matte: 10–40\*
- Smooth semi matte: 40–60\*
- Fine texture: visual comparison
- Rough glossy texture: visual comparison
- Rough matte texture: visual comparison

\* Gloss level acc. to DIN EN ISO 2813/60° angle (doesn't apply to metallic effect powder coatings).

### Test results

Checked under laboratory conditions on a chromated 0.8 mm thick aluminium test panel.

Test method	Test	Smooth				Fine texture	Rough texture	
		Gloss	Semi gloss	Matte	Semi matte		Gloss	Matte
ISO 2360	film thickness recommended	60-80µm	60-80µm	60-80µm	60-80µm	70-90µm	80-100µm	80-100µm
ISO 2409	cross cut test (adhesion)	GT 0	GT 0	GT 0	GT 0	GT 0	GT 0	GT 0
ISO 1519	bending test	≤5mm	≤5mm	≤6mm	≤6mm	≤10mm	≤10mm	≤25mm
ISO 2815	impression hardness	≥87	≥87	≥87	≥87	-	-	-
ISO 3668	coating color, deviation	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm
ASTM D 2794	ball impact test cracking of coating	No cracks	No cracks	Cracks	Minor cracks	Cracks	Cracks	Cracks
ISO 6270-1	determination of resistance to humidity 1000 h	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm
ISO 9227	salt spray test 1000 h	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm	≤1mm

## Processing

Corona, Tribostatic\*

\* Available upon inquire.

## Color shades

Mainly RAL shades; also special domestic shades on request\*.

\* Gloss and color of coating parameters other than indicated in the table can be agreed with the customer. Also available are fine and coarse texture-powders.

## Pretreatments

Before the painting, the item should be adequately pretreated in accordance with surface type, final use and required performances. The following table can be used as starting point for the pretreatment choice. The surface shall be clean, dry and appear with a rough and dull profile.

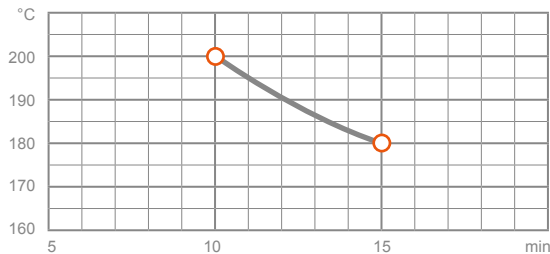
Substrat	Indoor use	Outdoor use
Aluminium	soil removal, chromate, chrome-free	chromate, chrome-free
Steel	soil removal, iron phosphate, zinc phosphate, sand-blasting	iron phosphate, zinc phosphate, sand-blasting
Zinc coated steel	acid attack, iron phosphate, chromate	acid attack, zinc phosphate, chromate

Oxides (rust) cleaning and de-greasing shall be carried out when the simplified process is used! The simplified pre-treatment does not ensure necessary protective properties and decreases the service life of the coating. Hot-dip galvanized steel requires additional mechanical processing (incision).

## Cure parameters

Temperature and time combinations resulting in the optimal cross-linking of the coating.

Typical curing



Please observe cure parameters closely since mechanical properties will develop before full cross-linking!

To obtain optimal stoving conditions you are recommended to carry out practical trials each time, adapted to the carry out practical trials each time, adapted to the object in question and the stoving oven. Temperature conditions of curing for each powder listed on the label.

**Our technical service department will be glad to advise you.**

## Note

The data is provided for information purposes and is not exhaustive. The customer using the product otherwise than indicated in the data sheet takes responsibility for the results obtained. As the manufacturer, we provide more precise product description, conditions of usage and all the application process accompanying factors. Due to the fact that direct control on our part cannot be effected in regards to the following of the aforementioned conditions, unless an additional written agreement is made, we offer no guarantees and hold no responsibility for the products usage and the results obtained.

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