

Product

Field of application

- powder primer for extremely high requirements of corrosion protection e.g. ship components, steel constructions, agriculture and construction machines, equipment of wind power stations

Properties

- high-quality epoxy resin base
- **low temperature powder coating (NT)**
- very good corrosion protection
- very good chemical resistance
- very good mechanical capacity
- very good edge covering

Details

- colour shade all RAL and also special colour shades are possible
- surface smooth
- gloss glossy 85 GU +/- 10 (60° angle)
- density 1,3 - 1,8 g/ml (depending on colour shade)
- spreading rate 9 - 13 m²/kg (at 60 µm layer thickness)

Storage

- 12 month at dry and cool storage up to max. +25°C

Processing

Substrates

- pre-treated parts of steel, galvanized steel and aluminium

Preparation/
Pre-treatment

- grease, oil, tinder and oxidation products have to be removed from surface before coating

- steel** → **high corrosion protection (C4 + C5) - DIN 55633/55634**
 blasting SA 2 ½ with sharp-edged blast-cleaning abrasive
 depth of surface roughness Rz 30 - 40 µm
 coating directly after blasting!
- **standard requirements**
 iron-phosphating or zinc-phosphating
- galvanized steel** → **high corrosion protection (C4 + C5) - DIN 55633/55634**
 sweep blasting with sharp-edged blast-cleaning abrasive(ferrite-free)
 coating directly after blasting!
- **standard requirements**
 chromating, chrome-free pre-treatment, zinc-phosphating
- aluminium** → chromating, chrome-free pre-treatment, pre-anodisation

the coater has to check the suitability of pre-treatment referring to customer demand previously.

Application

- elektrostatic and tribo

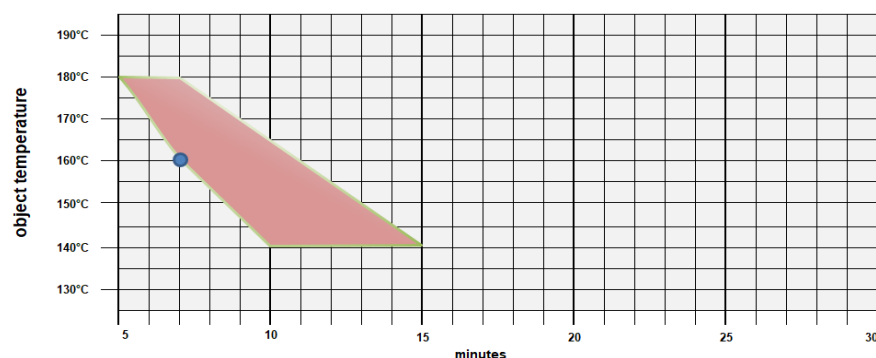
Layer thickness ISO 2360

- 60 - 100 µm (depending on colour shade and application)

Object temperature

- 10 min - 140°C or 7 min.- 160°C or 5 min.-180°C (● recommended)

Please pay attention to special curing notes on page 2



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- Special curing notes
- **primer only:**
10 min.-140 °C or 7 Min.- 160 °C or 5 min.-180°C (each object temperature)
 - **primer + top coat:**
pre-stoving of primer * or completely curing corresponding to above mentioned curing conditions. Afterwards apply top coat and cure it according to technical data sheet (of top coat).
(* at least 50% of the specified minutes at the respective object temperature)

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- Recoatability
- CENARIS Powder MEGAPOX®, MEGAPRIMER®, MEGAMIX®, MEGATANE®, MEGAPOL®
 - recommendation about appropriate liquid coats on request

Test results 1

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- Proved substrate
- steel panel 0,8 mm, iron-phosphated, layer thickness 60 µm
- Physical/Mechanical
- cross cut test Gt 0
DIN EN ISO 2409
 - bending test 5 mm no cracks
DIN EN ISO 1519
 - impact test >20 inchp. no cracks on both sides
ASTM D2794
 - Erichsen cupping test ≥ 5 mm
DIN EN ISO 1520

Test results 2

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- Proved substrate
- steel panel 5 mm blasted with SA 2 ½ acc. DIN 55633/55634
- Corrosion resistance
- salt spray test (neutral)
DIN EN ISO 9227
 - **primer only:** 1000 h without loss of surface protection
(corrosion creepage at crack approx. 2 mm)
 - **primer + top coat (Series 140):** 3000 h without loss of surface protection
(corrosion creepage at crack approx. 3 mm)
 - humidity chamber test
DIN EN ISO 6270-2
 - **primer only:** 500 h without loss of surface protection
(cross cut GT0)
 - **primer + top coat (Series 140):** 1000 h without loss of surface protection
(cross cut GT0)

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- Weather resistance
- primer is not UV stable. Therefore it should not be used without top coat outside as under UV radiation it starts to chalk very soon.
The corrosion protection will not be effected!

Technical data sheet
MEGAPRIMER® EP-NT G/GL
Series 111-01



Certificates • on request

Notes

Occupational safety/ health • please note information of corresponding safety data sheet
environmental protection

This technical data sheet is based on our current state of knowledge. It is not a product specification.
The technical data sheet is for information only and without any responsibility. It does not release to test our products previously regarding suitability according to operation purpose. CENARIS reserves the right of changes without notification.
Therefore only the current version is valid. If in doubt, please contact us.
The current technical data sheets and safety data sheets can be found at www.cenaris.com/downloads