



O-EP SERIES

EPOXY POWDER COATING

- excellent corrosion protection
- good adhesion properties
- highly functional coatings

APPLICATION

As primer to increase protection against corrosion.
As single-layer solution for metal office furniture, shelves, household appliances, water pumps, car brakes pumps, and any metal object for indoor and metal objects exposed to high chemical stress.

Due to their outstanding chemical resistance and their functionality, our pure epoxy coating systems are highly economical and versatile interior coatings.

PROPERTIES

Colour shade:	all RAL, (on request NCS, Pantone or other)
Finish:	smooth, fine texture, rough texture, and special effects
Gloss:	from matt to glossy
Density:	from 1.25 to 1.80 g/cm ³ , depending on colour shade and quality
Yield:	depends on the applied film thickness, c.f. formula
Storage life:	depends on the formulation reactivity (from 3 to 36 Months at temperatures lower than 30 °C)

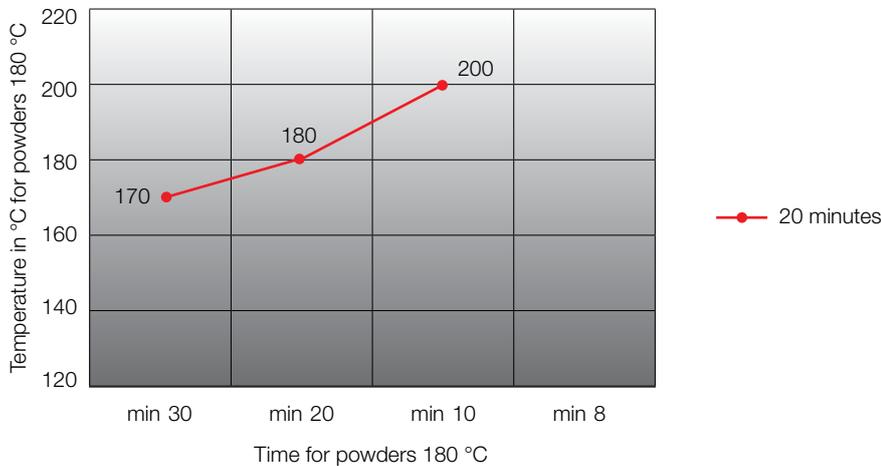
EPOXY POWDER COATING

COATING PROPERTIES

Adhesion test:	Gt 0 DIN 53151
Impact test:	>20 cm/Kg ASTM D 2794
Erichsen cupping test:	>4 mm ISO 1520
Mandrel bend test:	5 mm ISO 1519
Pencil hardness test:	H-2H ASTM D 3363
Salt spray test:	1,000 hours 0.5 mm ASTM B 117-94
Humidity resistance:	1,000 hours unaffected ASTM 9870
Q.U.V-B test:	80 hours -50% gloss loss
Chemical resistance:	good regarding lyes and acids diluted and at room temp.

CURING CONDITIONS

EPOXY POWDER COATING – Curing conditions



Light colour shades can cause a shift. The maximum temperature is around 200 °C. All data refer to object temperature.

THEORETICAL SPREADING RATE

Multiply the average specific gravity by the requested thickness in microns. The obtained value is the consumption in grams per square meter. Formula: Specific gravity x thickness = yield (g/m²)

These data are based on empirical values for the completeness of which we do not assume any guarantee. Since we cannot influence in any way the processing of the product, the purchaser is responsible for ensuring that the product is suitable for the intended purpose before using the product. Any change in the processing procedure, environmental conditions, or the non-observance of instructions can influence the result negatively. Status 07/2015.

PROCESSING

Surface pretreatment:

Before coating, metal surfaces must be clean and free from greases, oils, rust and any other material that might cause adhesion loss of the product to surfaces.

Aluminium: chromatising or Cr-free cycles

Galvanised steel: chromatising

Steel: sand blasting or/and iron or zinc phosphatising

Application:

all common processes (Tribo, Corona)

Thickness:

From 60 µm to 120 µm, depending on colour shade and finish type

Curing conditions:

Depends on the formulation reactivity (from 10 min. at 140 °C to 20 min. at 180 °C object temp.)

Overcoatability:

Can be overcoated with the same product or with special repair coatings.