



Q-PES SERIES

POLYESTER FOR ARCHITECTURE

- excellent weather resistance
- good flexibility
- outstanding adhesion properties

All series Q-Pes are TGIC-free pure polyester systems providing lasting resistance to UV radiation and outdoor weathering. The series Q-Pes are all approved Qualicoat class 1. Therefore these powder coatings are ideally suitable for the Architectural applications.

APPLICATION

Window frames, facade elements, garden furniture, road signs, lighting articles and any metal object where high sun rays and weather resistances are required.

PROPERTIES

Colour shade:	all RAL, (on request NCS, Pantone or other)
Finish:	smooth, fine texture, rough texture, and special effects in Dryblend and Bond version
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:	average of 36 Months at temperatures lower than 30°C

POLYESTER FOR ARCHITECTURE

COATING PROPERTIES

Adhesion test:	Gt 0 DIN 53151
Impact test:	>25 cm/Kg ASTM D 2794
Erichsen cupping test:	>5 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
Accelerated ageing test:	1,000 hours, <50% according Qualicoat Specification ISO 11341
Chemical resistance:	good regarding lyes and acids diluted and at room temp.

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

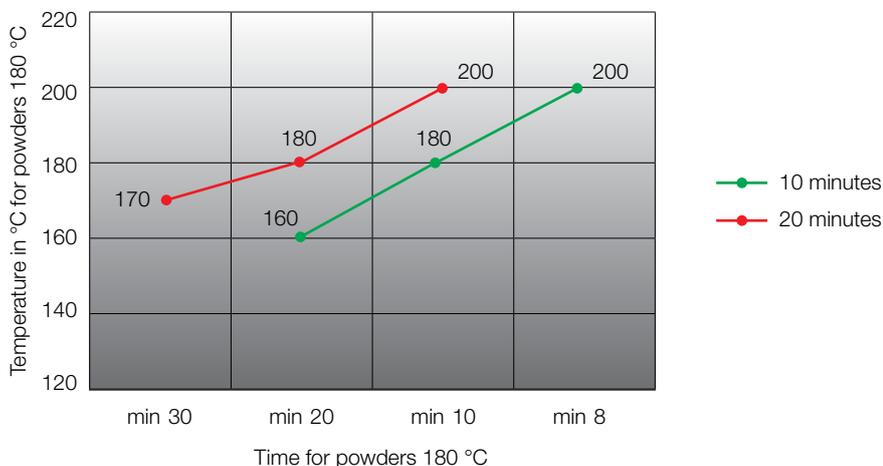
Curing conditions:

110/20 minutes at 180°C object temp. for Q191 and Q181

series 20 minutes at 180°C object temp. for other Q-Pes series

CURING CONDITIONS

POLYESTER FOR ARCHITECTURE– Curing conditions



Light colour shades can cause a shift. The maximum temperature is around 210 °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.