

Products and techniques for construction and chemical industry

PC[®] 5800 CARBO LPL

1. Description

PC® 5800 Carbo LPL is a thixotropic epoxy glue suitable for the horizontal and vertical impregnation of different kinds of textiles like carbon fibre and aramid textiles.



2. Application

- Because of the balanced formulation, applications above the head or vertical applications can easily be made.
- Excellent adhesion.
- Solvent free.
- At high temperatures, the pot-life is sufficiently long to allow an easy use.
- Due to the low exothermic reaction the product can be applied in a broad temperature range. Both at low and high temperatures.

3. Properties

PC[®] 5800 Carbo LPL is a solvent free, 2 component epoxy system which is especially formulated for the impregnation of Carbon and Aramid textiles for structural strengthening of constructions. **PC[®] 5800 Carbo LPL** can be used for gluing these textiles to concrete, wood or masonry and this for both horizontal as vertical applications.

4. Technical data (typical values)

- A Component (resin)
 - Colour:
 - Viscosity:
 - Density:
- B Component (hardener)
 - Colour:
 - Viscosity:
 - Density:
- Mixture
 - Colour:Initial viscosity:
 - _____
 - Density:

Grey 8000 mPas at 20° C and 4370 mPas at 30° C 1.092 kg/l

Bright to light yellow 315 mPas at 20° C and 201 mPas at 30° C 1.046 kg/l

Grey 5600 mPas at 20° C and 3272 mPas at 30° C 1.078 kg/l

Date: 30/06/10

PC 5800 CARBO LPL TD.DOC

Page 1 of 3

This information is given to our best knowledge. It is offered as a possible helpful suggestion in experimentation you may care to make along these lines. It is subject to revision as additional knowledge and experimentation are gained. We make no guarantee of results and assume no obligation or liability whatsoever in connection with this information

CHNICAL DATASHEE

Terbekehofdreef 50-52 B-2610 Wilrijk

phone +32 3 828.94.95 fax +32 3 830.27.69

info@tradecc.be www.tradecc.be



Products and techniques for construction and chemical industry

Temperature to start from]
	14 °C	20 °C	25 °C	30 °C
Pot Life ¹	110 min	69 min	60 min	52 min
Gelification time ²	83 min	42 min	33 min	25 min
Application time ³	66 min	25 min	16 min	8 min

¹Time needed for a mixture of 660 g PC[®] 5800 Carbo LPL A and 300 g PC[®] 5800 Carbo LPL B to rise in temperature from « temperature to start from » to T_{max} when you put the mixture in a plastic bukket of 1 l.

²Time needed for a mixture of 660 g PC[®] 5800 Carbo LPL A and 300 g PC[®] 5800 Carbo LPL B to rise in temperature from « temperature to start from » to gelification time when you put the mixture in a plastic bukket of 1 I The "gelification point" is the moment where the mixture changes fast from liquid into a dens mass.

³Time needed for a mixture of 660 g PC[®] 5800 Carbo LPL A and 300 g PC[®] 5800 Carbo LPL B to rise in temperature from \ll temperature to start from \gg to 40° C when you put the mixture in a plastic bukket of 1 l.

 Tensile strength (ENISO0527)*: Compression strength (EN12190)*: Flexural strength (EN13892-2)*: E-modulus (EN13412)*: Mixing ratio: Application temperature: 	34,37 N/mm ² 60,89 N/mm ² 49,34 N/mm ² 2465,50 N/mm ² 2.2 kg / 1 kg Min. 10°C, max. 35°C (ambient and surface temperature).
Consumption:	PC [®] CarboComp Textile and PC [®] AraComp ~ 500 - 800 g/m ² . The consumption depends on the roughness and porosity of the surface.
• Shelf life:	Ca. 24 months after production date in the original, unopened and undamaged packaging. Store PC[®] 5800 Carbo LPL in a cool and dry place (between +10°C and 30°C).
Adhesion:	> 3 N/mm ² (rupture in concrete).

* After 7 days of hardening by 23°C

5. Processing

- Mix the A & B components intensively.
- Apply a first layer of PC[®] 5800 Carbo LPL on the structure which must be dry, free of cracks, dust, oil and grease. The concrete should be at least 28 days old.

Date: 30/06/10

PC 5800 CARBO LPL TD.DOC

Page 2 of 3

This information is given to our best knowledge. It is offered as a possible helpful suggestion in experimentation you may care to make along these lines. It is subject to revision as additional knowledge and experimentation are gained. We make no guarantee of results and assume no obligation or liability whatsoever in connection with this information



Products and techniques for construction and chemical industry

- Push the textile into the resin with a profiled roller
- Apply a second layer of **PC[®] 5800 Carbo LPL**.
- Make sure that the textile / tissue is fully impregnated (wet).

6. Packaging

Standard packaging:

A-component: 2.2 kg B-component: 1 kg

7. Cleaning

Uncured product can be removed with PC[®] 5900.

8. Precautions and safety requirements

- Avoid contact with the skin and the eyes.
- Wear protective gloves, clothes and safety glasses.
- Prevent all contact of **PC[®] 5800 Carbo LPL** with water or moisture.
- For more information: see Material Safety Data Sheet.

Date: 30/06/10

PC 5800 CARBO LPL TD.DOC

Page 3 of 3

This information is given to our best knowledge. It is offered as a possible helpful suggestion in experimentation you may care to make along these lines. It is subject to revision as additional knowledge and experimentation are gained. We make no guarantee of results and assume no obligation or liability whatsoever in connection with this information