



CarboLith PL 2K



Scope of application:

Non-frothing, elasticized two-component resin with great adhesion, even on damp surfaces, for purposes of adhering partial liners in sewer rehabilitation.

- Soaks glass fiber mats (Advantex) or polyester mats well
- Even adheres to damp surfaces
- Hardens well in thin layers
- Shuttering can be removed from the mold easily
- Even in cases of aggressive types of water, Carbo Lith PL 2K is resistant and does not saponify

CarboLith PL 2K is delivered in two components. As a three-component resin with variable dosage of the C-component for the purpose of controlling the setting speed, the system is also available under the name CarboLith PL.

Advantages:

- DIBt approved
- Incorporated quickly: cycle time approx. 70 minutes
- No odor nuisance
- High strength
- Resistance to chemicals is particularly well
- Cost-efficient repair design

Mixture ratio A : B	100 : 200 volume parts	100 : 200 : 3.0	Test specification
Initial temperature	20 °C	15 °C	
Pod life (spreadability)	Approx. 8 min	10 min	
Setting time	Approx. 10 min	15 min	MCT PV 10-308
Deshuttering time	Approx. 50 min	60 min	

The data listed are laboratory values. Due to the heat exchange between resin and subsurface, surface condition and other factors, these values are subject to change during application. Whereas the pot life depends on material temperature in particular, the deshuttering time is highly contingent on the ambient temperature.



Data on chemical media

	Component A	Component B	Norm
Density at 25°C	1475 ± 50 kg/m ³	1130 ± 40 kg/m ³	DIN 12791
Color	Honey	Black/brown	DIN 53213
Flash point	None	>200°C	
Dynamic viscosity at 25°C	300 ± 140 mPa*s	150 ± 100 mPa*s	ISO 3219
pH-value	12-13	n.a.	DIN 19268

Mechanical Properties of the Liner:

Ring stiffness vertex pressure test*	140	kPa	DIN EN 1228	2
E-modulus vertex pressure test*	9000	MPa	DIN EN 1228	2
Ring stiffness vertex pressure test short-time** (S ₀)	2,6	kPa	DIN EN 1228	6
E-modulus vertex pressure test short-time**	14500	MPa	DIN EN 1228	6
E-modulus vertex pressure test 400d**	8800	MPa	DIN EN 1228 DIN EN 761	6
Bending strength axial	140	MPa	DIN EN ISO 178	4, 6
Bending E-modulus axial	5600	MPa	DIN EN ISO 178	4
Bending strength radial	120	MPa	DIN EN ISO 178	4
Bending E-modulus radial	5500	MPa	DIN EN ISO 178	4
Tearing strength (glass and stoneware)	2,2	MPa	DIN EN ISO 4624	5
Tearing strength (glass and stoneware)	3,3	MPa	DIN EN ISO 4624	6

*Inside pipe diameter 150 mm, liner diameter 4 mm

**Inside pipe diameter 300 mm, liner diameter 4 mm

(The values are obtained from sophisticated reports and shall be regarded as orientation values.)

Delivery form:

Bundles consisting of:

Component A:

10l = 14,75 kg inside a tinplate canister

250 ml = 0,37 kg inside a PVC can

Other forms of delivery on request

Component B

20 l = 22,6 kg inside a tinplate canister

500 ml = 0,57 kg inside a tinplate

**Approval and reports:**

DIBt approval

Drinking water and ground water hygiene testing (Institute of Hygiene, Gelsenkirchen)

Liner material testing for partial rehabilitation purposes (Engineering office Seibert, Oststeinbek)

Article numbers:

Carbolith 2K Summer 35kg Container = **160317**

Carbolith 2K Winter 35kg Container = **160318**