

Application areas

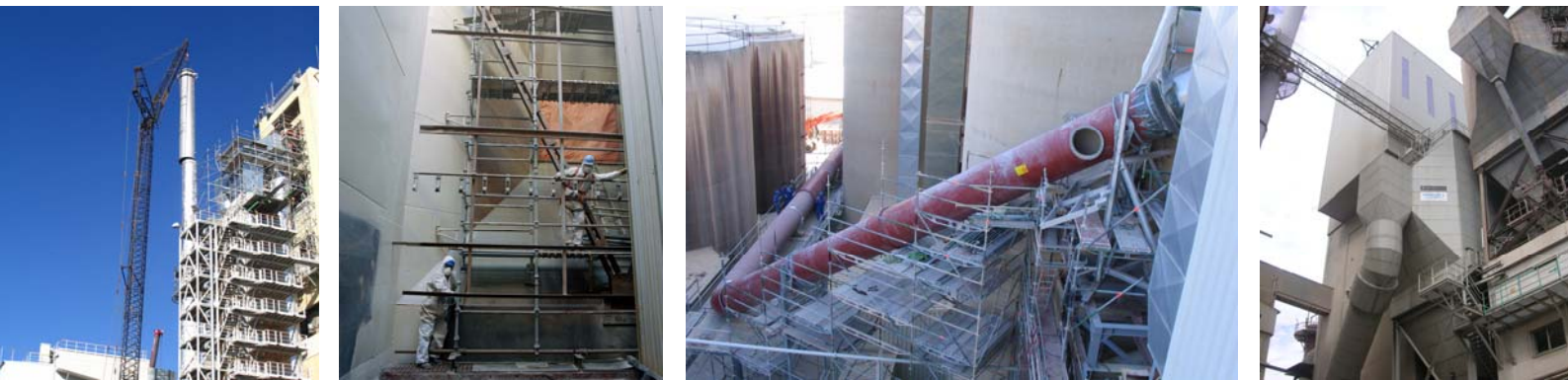
Spray coating with a good chemical resistance against acyclic and aromatic solvents as well as against sulphuric acid and hydrofluoric acid. Therefore BÜCOLIT® V590 C is very well suitable for coating of procedural apparatuses such as storage and process tanks. With the use of graphite the system can be applied in explosion-proof rooms and plants. .

System characteristics

- Conductive performance
- High chemical and diffusion resistance
- Good mechanical properties

Application range

- Flue gas ducts
- Process tanks
- Cinde silos



Temperature resistance / Chemical resistance

The limit for a constant temperature strain against chemicals is 70 °C (wet), 180 °C in the gaseous phase. Please find further details regarding temperature and/or chemical resistance in our resistance charts; information is also available on request from our department for application technology.

Suitable surfaces / Surface preparation

BÜCOLIT® V590C is suitable for coating of steel (also special steels). The surfaces must be subject to DIN 14879. The areas must show a standard purity of min. SA 2 ½ according to DIN EN ISO 12944, part 4, and a roughness R_z of 50-70 µm (DIN EN ISO 8503-2).

Mixing ration / Curing time

The mixing ration resin : hardening compound is 100 : 2 parts in weight. At a processing temperature of approx. 20 °C the gel time is approx. 60 minutes. The curing time at room temperature prior to further processing is approx. 6 hours. Under these circumstances Initiation of the plant can take place after approx. 12 hours.

By thermal treatment (30 – 40 °C) this time period can be reduced. During coating works any sunlight must be avoided.

Usage

Consumption rates for performance with standard layer thickness (ca. 1.5 mm):

➤ BÜCOLIT® V590 G -primer	0.15 kg/m ²
➤ BÜCOLIT® V590 G -wear layer	2.2 kg/m ²
➤ BÜCOLIT® V590 C -top coat (black)	1.1 kg/m ²

The layer thickness may vary depending on the operating conditions.

Form of delivery

➤ BÜCOLIT® V590 G -primer	10 kg / 20 kg package
➤ BÜCOLIT® V590 G -spray coating (beige)	20 kg package
➤ BÜCOLIT® V590 C -top coat (black)	10 kg / 20 kg package
➤ BÜCOLIT® Hardener no. 1 (clear/red)	400 g package

Material characteristic data of the resin in condition as delivered

➤ Viscosity at 25°C	2.600 to 3.200 mPa s	ISO 2555
➤ Flashpoint	34 °C	DIN 53 213/1
➤ Density	1.180 up to 1.250 kg/m ³	DIN 53 217/2

Material characteristic data of the cured coating

➤ Tensile strength	25 MPa	ISO 527-2
➤ Flexural strength	45 MPa	ISO 178
➤ Pressure resistance	45 MPa	ISO 604
➤ Ultimate elongation	0,3 bis 0,5 %	ISO 527
➤ Shunt resistance	< 10 ⁵ Ohm	DIN EN ISO 1081
➤ Hardness	75 Shore D	DIN 5305

Suitability for storage / Handling

The project must be stored closed, cool and protected from sunlight. It is storable for min. 3 months in unopened original packages and at a temperature of up to 20 °C. The gel and curing times may change with increasing storage time.

