

Application area

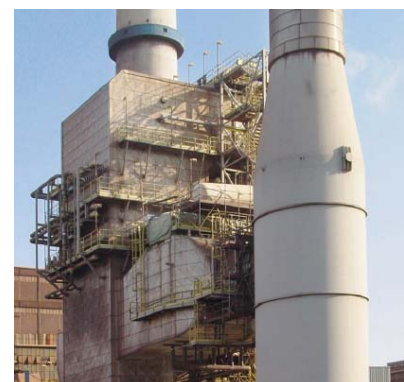
Spray coating for procedural apparatuses such as storage and process tanks also for concentrated acids and bases. Spray systems can demonstrate their advantages mainly on large areas with simple geometries. BÜCOLIT® V590 G was developed for application in flue gas cleaning plants in power stations and garbage incineration plants, particularly for the use in ducts.

System characteristics

- Very good chemical resistance
- High temperature- and heat deformation resistance
- Very good diffusion resistance
- Simple and economic coating of large areas

Application range

- Steel chimneys
- Process tanks
- Storage tanks
- Flue gas ducts



Temperature resistance / Chemical resistance

The limit for a constant temperature strain against chemicals is 80 °C (wet), in the gaseous phase 180 °C (short-term up to 220 °C). Please find further details about temperature and / or chemical resistance in our resistance chart; they are also available on request from our department for application technology.

Suitable surfaces / surface preparation

BÜCOLIT® V590G is suitable for coating of steel (also special steels). The surfaces must be subject to the requirements of DIN 14879. The areas have to show a standard purity of min. SA 2 ½ in accordance with DIN EN ISO 12944, part 4, and a roughness R_Z of 50-70 µm (DIN EN ISO 8503-2).

Mixing ratio / curing time

The mixing ratio resin : hardening compound is : 2 parts by weight. At a processing time of approx. 20 °C the gel time amounts to 60 minutes.

The curing time of the coating at room temperature prior to a further processing is approx. 6 hours. Under these circumstances the initiation of the plant can take place after approx. 12 hours. By thermal treatment this time period can be reduced. During the coating works any direct sunlight must be avoided.

Usage

Consumption rates for application 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 G –top coat (beige)	1.1 kg/m ²

In Abhängigkeit vom von den Betriebsbedingungen kann die Schichtstärke variieren.



Form of delivery

➤ BÜCOLIT® V590 G -primer	10 kg / 20 kg package
➤ BÜCOLIT® V590 G -spray coating (beige)	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	3.000 mPa s ± 300	ISO 2555
➤ Flashpoint	34 °C	DIN 53 213/1
➤ Density	1.170 up to 1.250 kg/m ³	DIN 53 217/2

Material characteristic data of the cured resin

➤ Tensile strength	40 MPa	ISO 527-2
➤ Flexural strength	70 MPa	ISO 178
➤ Pressure resistance	100 MPa	ISO 604
➤ Ultimate elongation	1,0 %	ISO 527
➤ Performance in fire	B2	DIN 4102-4

Suitability for storage / handling

The product must be stored closed, cool and protected from sunlight. It is storable for min. 6 months in unopened original packages and at a temperature of 20 °C. The gel and curing times may change with increasing storage time.