

Application areas

BÜCOTHERM® is a double-walled coating and was especially developed for the use in flue gas purification plants in power stations and incineration plants. Here the system is suitable for the coating of electric filters, washers, flue gas ducts and chimneys. Due to its product characteristics BÜCOTHERM® is highly suitable for the re-fitting of old plants.

System characteristics

- very good resistance against chemicals
- high temperature- and heat deformation resistance
- very high diffusion resistance
- Discharge of diffusion products by the monitoring area

Application range

- flue gas ducts
- electric filters
- process tanks
- chimneys



Temperature resistance / Chemical resistance

The limit for a constant temperature strain against chemicals is 70 °C (wet) and in the gas phase up to 180 °C, temporary up to 220 °C. Further details regarding temperature- and / or chemical resistance can be taken from our resistance table respectively on request from our applications technology.

Suitable Surfaces / Surface preparation

BÜCOTHERM® is suitable for the coating of steel (also stainless steel). The surface must be in accordance to DIN 14879. The surface must have a standard grade of cleanliness of min. SA 2,5 acc. to DIN EN ISO 12944, part 4 and a roughness depth R_z of 50 – 70 μm acc. to DIN EN ISO 8503-2.

Mixing ratio / Curing time

The mixing ratio resin : hardener is 100 : 2 parts per weight. The gel time is approx. 60 minutes at a processing temperature of approx. 20 °C. The curing time of the coating at room temperature before further processing amounts to approx. 6 hours. Under these conditions the initiation of the plant can be effected after approx. 12 hours. This time can be reduced by heat treatment (30 – 40 °C). Any insulation has to be avoided during the coating works.

Usage

Consumption rates for application with standard layer thickness (approx. 7,0 mm):

➤ BÜCOLIT® V47-36 – laminate resin	2,6 kg/m ²
➤ BÜCOCONTROL® - laminate resin	1,4 kg/m ²
➤ BÜCOLIT® V590 G – spray coating (beige)	4,4 kg/m ²

The layer thickness can vary in dependence of the operating conditions.

Form of delivery

➤ BÜCOLIT® V47-36 – laminate resin	20 kg package
➤ BÜCOCONTROL® - laminate resin	20 kg package
➤ BÜCOLIT® V590 G – spray coating	20 kg package
➤ BÜCOLIT® Hardener no. 1 (clear/red)	400 g package

Material characteristic data of the resin in the condition as delivered

➤ Viscosity at 25°C	550 mPa s ± 150	ISO 2555
➤ Flash point	34 °C	DIN 53 213/1
➤ Density	1.030 bis 1.060 kg/m ³	DIN 53 217/2

Material characteristic data of the cured coating

➤ 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
➤ Fire performance	B2	DIN 4102-4

Suitability for Storage / Handling

The product must be stored closed, cool and protected from sunlight. It is storable for min. 4 months in unopened original packing drums at a temperature up to 20 °C. The gel- and curing times may change with increasing storage time.