

Application areas

Laminate coating for process technology apparatuses as storage and process tanks, but also thickeners, decanters, etc. also for concentrated acids and bases. The system is realised in a way that it cannot only be used in new applications but particularly for restoration of corroded old plants. BÜCOLIT® V47-36 was developed and multiple used in the field of flue gas purification plants.

System characteristics

- very good resistance against chemicals
- high temperature- and heat deformation resistance
- very high diffusion resistance
- approved by all leading German plant constructors and -operators

Application range

- flue gas ducts
- process tanks
- storage tanks
- silos



The limit for a constant temperature strain against chemicals is 90 °C (wet) and 180 °C in the gaseous phase. Please find further details in respect of 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® V47-36 is suitable for coating of steel (also stainless steel) as well as concrete. The surface must be in accordance with DIN 14879. The surface must have a standard purity of SA 2.5 according to DIN EN ISO 12944, part 4, and a roughness R_z of 50 – 70 μm in accordance with 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 prior to further processing amounts to approx. 6 hours.

Considering these conditions the initiation of the plant can be effected after approx. 12 hours. This time can be reduced by thermal treatment (30 - 40°C). Any direct sunlight must be avoided during the coating works.

Usage

Consumption rates for application with standard layer thickness (approx. 2.0 mm):

➤ BÜCOLIT® V47-36 – laminate resin	2.6 kg/m ²
➤ BÜCOLIT® V47-36 – pre-sealing (silver-grey)	0.5 kg/m ²
➤ BÜCOLIT® V47-36 – final sealing (silver-grey)	0.5 kg/m ²

The layer thickness may vary depending on the operating conditions.

Delivery form

➤ BÜCOLIT® V47-36 - laminate resin	20 kg package
➤ BÜCOLIT® V47-36- pre- and final sealing (silver-grey)	23 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	80 MPa	ISO 527-2
➤ Flexural strength	170 MPa	ISO 178
➤ Pressure resistance	100 MPa	ISO 604
➤ Ultimate elongation	1,6 %	ISO 527
➤ Fire behaviour	B2	DIN 4102-4

Suitability for Storage / Handling

The product must be stored closed, cool and protected from sunlight. The laminate resin is storable for min. 7 months in unopened original packages at a temperature of up to 20 °C (sealing 3 months). The gel and curing times may change with increasing storage time.