



## PRODUCT DATA SHEET

### **BIRKOSIT Dichtungskitt®**

#### **for maximum temperature and pressure resistance**

#### **Description**

**BIRKOSIT Dichtungskitt®** is a single-component, paste luting agent/sealing material for industrial use wherever conditions of temperature combined with pressure on smooth, plane sealing surfaces (butt joints) make extreme demands on the quality of the sealing compound. This applies, in particular, to the sealing of metallic joints in: **steam and gas turbines**, compressors, generators, expanders, pumps, flange joints, etc.

#### **Temperature resistance**

**BIRKOSIT Dichtungskitt®** withstands hot steam and air, hot and cold water, light fuel oils and lubricants, as well as crude oil and natural gas **at temperatures of up to 900 °C**.

#### **Pressure resistance**

The adhesion on sealing surfaces and butt joints is so high that a one hundred percent seal is guaranteed even for pressures **up to 250 bar**.

The pressure resistance for flanges without sealing rings is guaranteed **up to 450 bar**, and even **up to 550 bar** for screw joints.

#### **Service life**

When used in accordance with instructions and with regular servicing as required for **steam and gas turbines** as well as for the application areas stated above, we guarantee a service life for use on machined sealing surfaces (butt joints) **of 10 years**.

#### **Fields of application**

**BIRKOSIT Dichtungskitt®** is suitable for sealing all surface sizes. The surface quality of the sealing surfaces complies with milled/scraped surfaces with a finishing accuracy of  $Ra = 0.8 \mu m$  to  $1.2 \mu m$ .

Sealing surface damage of  $\leq 0.2 \text{ mm}$  is compensated with **BIRKOSIT Dichtungskitt®**.

For spot repairs on badly damaged areas of  $\geq 0.2 \text{ mm}$  to  $1.0 \text{ mm}$ , we recommend the products **FILLING basic®**, **FILLING 1000®** and **FILLING 2000®**.

#### **Application**

Apply the **BIRKOSIT Dichtungskitt®** to the dry sealing surfaces with a brush or putty knife on both sides.

The layer thickness to be applied is **0.2 mm to 0.3 mm**. **The product can be subjected to workloads immediately!** It does not cure, will not change its consistency even after several hours, and remains flexible and elastic. It is therefore also suitable for butt joint machining. The colour is reddish brown.

Heating the tin to room temperature or adding a tenth part of standard linseed oil varnish (AIS B020) from our product range will improve the brushability.

#### **Storage**

Packed in 1 kg tins. If stored correctly, **BIRKOSIT Dichtungskitt®** has a **storage life of 5 years** in the tin.

Its properties are stable and it is flexible in use. Close the tin properly if only a part of the contents is going to be used.

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