



FILLING PRODUCTS

Chemotechnische Fabrik e.K.



Product number FP basic

PRODUCT DATA SHEET

FILLING basic®

for extremely high temperature and pressure resistance

Description

You have chosen to purchase a high quality, single-component sealing material in paste form with **FILLING basic®**. High temperatures combined with pressure on smooth sealing surfaces (butt joints) make extreme demands on the quality of the sealing compound. This is particularly important when sealing metallic joints in **steam and gas turbines**, compressors, generators, expanders, pumps, housings and flange joints etc. You are optimally equipped for these jobs with **FILLING basic®**.

Temperature resistance

FILLING basic® is temperature resistant **up to 950 °C** against: hot steam and hot air, hot and cold water, fuel oils and lubricants, as well as crude oil and natural gas.

Pressure resistance

FILLING basic® offers such a high level of adhesion on sealing surfaces and butt joints that we guarantee a one hundred per cent seal up to a pressure of **275 bar**. In addition, the pressure resistance for flanges without sealing rings is guaranteed up to **570 bar** and for screw joints it is even guaranteed up to **670 bar**.

Service life

We guarantee a service life for **FILLING basic®** of **10 years** for use on machined sealing surfaces (butt joints). The prerequisite for this guarantee is that the product is used in accordance with the instructions and that the service intervals are observed in the product segment **steam and gas turbines**, as well as for the application areas named above.

Fields of application

FILLING basic® is suitable for sealing all surface sizes. The quality of the sealing surfaces is equivalent to machined or abraded surfaces with a finishing accuracy of $Ra = 0.8 \mu m$ to $1.2 \mu m$. Areas of damage of $\leq 0.2 mm$ on sealing surfaces can be filled with **FILLING basic®**.

Areas of damage of $\leq 0.5 mm$ on sealing surfaces can be filled with **FILLING 1000®**.

For spot repairs on badly damaged areas of $\leq 1.0 mm$, we recommend the product **FILLING 2000®**.

Application

Apply **FILLING basic®** with a brush or putty knife on both sides to the dry sealing surfaces. The layer thickness to be applied is **0.2 mm to 0.3 mm**. **FILLING basic®** can be subjected to workloads **immediately!** It does not cure, will not change its consistency even after several hours, and remains flexible and elastic. **FILLING basic®** is also suitable for butt joint machining. Heating the tin to room temperature or adding a tenth part of **linseed oil varnish (FP LINS)** from our product range will improve the brushability. The colour of **FILLING basic®** is dark brown.

Fill the **entire sealing surface area** with **FILLING basic®**.

Storage

FILLING basic® is packaged in 1 kg tins.

If stored correctly, **FILLING basic®** has a **storage life of 5 years** in closed tins.

The properties and workability of the product remain unchanged over this period of time.

Close the tin again properly if only part of its contents have been used.

Product data sheet as at 02.01.2025. Current download version at www.filling-products.com.