



Technical Data Sheet

Bauter THERMAL MASS

Scope of application

The **Bauter THERMAL MASS** coating is designed for use in various industrial sectors. It is mainly used to insulate machinery and equipment in the food, chemical, pharmaceutical and textile industries inside and outside buildings. In addition, it is used in the insulation of the surface of pipelines in the heating, refrigeration and oil industries. Examples of application areas are: district heating pipelines, storage tanks, pressure valves, heat exchangers, hot and cold processing equipment, chemical reactors and fermenters.

Bauter THERMAL MASS is a product for indoor and outdoor use:

- excellent thermal insulation in a thin coating,
- creates a thermal coating, which in turn reduces energy consumption for heating or cooling,
 - environmentally friendly coating,
 - resistant to microcracks, very durable,
 - elastic,
- good adhesion to porous substrates (adhesion) and excellent adhesion to aluminium, copper and steel,
 - the coating shows high resistance to aggressive external factors,
- high resistance of the coating to UV radiation and changing weather conditions,
 - can be applied to a thickness of 0.5mm to 5mm or more,
 - can insulate surfaces up to 320°C,
 - the material is non-combustible.



Temperature under control

- removes thermal bridges
- reduces heat loss
- reduces heating and cooling costs



Protects hot surfaces

- protects hot surfaces (OHS)
- protects against burns

Technical parameters

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|----------------------------|-----------------------------------|-------------------------------------|-------------------------------------------|
| • coating density 20°C: | 0,48-0,46 g/cm³ | • coating: | homogeneous white or gray in color |
| • dry matter content: | up to 80-85% | • efficiency with two applications: | 0,2 - 1m²/l |
| • dry film thickness: | 1,00mm — 5,00mm | • drying time of one layer: | min. 6h |
| • application temperature: | +15°C do +40°C | • water vapor permeability SD: | <0,7m |



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Substrate preparation:

The substrate must be clean, dry and free of loose particles such as dust, sand or paint residues.

Remove any traces of oil, grease, wax or other substances that may impair adhesion.

If there is rust on the surface, it must be removed. You can use a wire brush, sandpaper or special chemicals to remove rust. If the surface is smooth, it is a good idea to roughen it a bit to improve the adhesion of the paint. Fine grit sandpaper can be used.

About cleaning and matting the surface, it is necessary to degrease it. You can use isopropyl alcohol or a special degreaser for this.

The use of chemicals in production plants requires consultation with the risk department.

Application:



Before applying the coating, it is important to thoroughly mix the contents of the container.

To obtain a final coating thickness of 1-5mm, at least two coats of the product should be applied, each up to 1mm thick.

After min. 6 hours after applying the first layer, you can start applying the second layer.

The drying time of the coating depends on the ambient temperature.

To obtain excellent parameters of the thermal insulation coating, it is recommended to observe the temperature in the range of 15-40°C and air humidity of up to 70%.

Tool cleaning:

Clean the device in accordance with the device's technical data sheet.

Additional information:



When applying 2-5 layers, the efficiency of the product is 0.2-1 m²/l. During application, the general health and safety rules contained in the safety data sheet should be observed and people should be prevented unauthorized persons within the operation of the devices.



The product is sensitive to low temperatures and should be stored at temperatures between +5 °C and +25 °C in places protected from sunlight.



Bauter THERMAL MASS can be stored for 24 months from the date of production, provided that appropriate storage conditions and tightness of packaging are maintained.

The Bauter THERMAL MASS coating is produced in plastic packages with a capacity of 10 l.

The product is friendly to the environment and the environment.