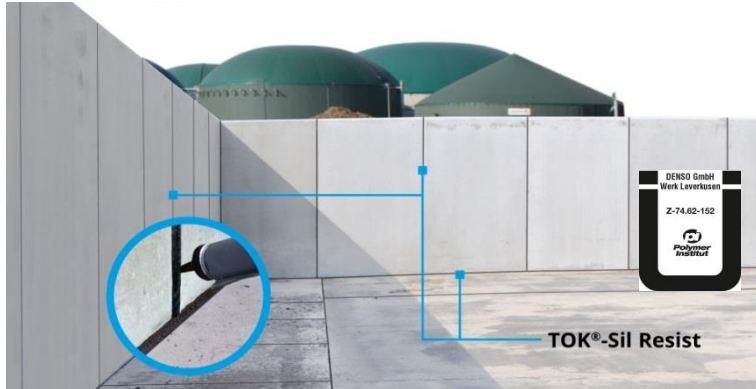


TOK[®]-Sil Resist

Product Information



Special Advantages:

- Stable – suitable as a system solution for horizontal and vertical joints.
- Bitumen-based and low-carbonate.
- Long-term stability against silage effluent and slurry/liquid manure, as tested vs. the corresponding DIBt test programme.
- Excellent recovery capacity.
- Suitable for new construction and for maintenance – can bear loads immediately after installation and cooling.
- Ideal material properties for urgent repair work.
- Very good adhesion to asphalt, concrete and steel.

Bituminous, acid-resistant and low-carbonate joint compound for horizontal and vertical applications.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

Product Description

TOK[®]-Sil Resist is a one-component, hot-workable bitumen-based joint sealant. This compound has exceptional properties, due to its special formulation, which includes

bitumen, polymer components and other innovative substances. In particular, **TOK[®]-Sil Resist** stands out because of its excellent acid resistance – particularly

against fermentation acids – and because of its universal applicability to horizontal and vertical joints.

Product Usage

TOK[®]-Sil Resist is used predominantly in applications that require a high level of chemical resistance. This is the case in plants that work with liquid manure, slurry

and silage effluent. In these plants, long-term material resistance to slurry/liquid manure and silage effluent is imperative.

TOK[®]-Sil Resist can be used on concrete and asphalt contact surfaces, and has excellent elasticity and adhesive properties.

Typical Material Properties

| Technical data | Value | Unit |
|---------------------------------|--------------------------------------|-------|
| Density | 1.131 (approx.) (at +21 °C/+69.8 °F) | kg/l |
| Softening point (ring and ball) | > +85 /+185 | °C/°F |
| Elastic recovery | 40 (approx.) (at +21 °C/+69.8 °F) | % |

Product Application

General instructions

As a rule, the joint compound should only be installed in dry conditions and where joint surface temperatures are at least 0 °C (+32 °F).

In conditions outside the temperature range given, special precautions may have to be taken.

Preparing the joints

Contact surfaces can be concrete or asphalt.

The contact surfaces must be dry, clean, and free of loose detritus and release agents. Concrete must be at least 7 days old and attained at least 70% of its 28-day compressive strength at the time of jointing. Coated surfaces may have to be pre-treated accordingly (e.g. by increasing the joint gap width or by abrasion).

Joint dimensions must follow the guidelines outlined by the general technical approval for both floor and rising wall joints, and run plane-parallel.

Joint width for traversable joints is up to 15 mm according to the approval.

The recommended joint depth for concrete joints is at least twice the joint gap width and is also dependent on expected changes in the joint gap width.

When working with concrete sealing layer joints, ensure that neither the underlay material nor the joint sealant in the joint space can be crushed downwards, and that contact with vehicle tires on the road above is avoided (chamfer formation at the concrete joint edges). Appropriate

precautions may need to be taken against pressure loading on the joints.

Asphalt sealing layer joints must generally be filled over the entire surface-layer height. Joints have to be cut according to the approval and must not be separated. In all cases, "three-surface adhesion", i.e. bonding of the joint sealant to the subsurface (and not to the joint flanges!) must be avoided. This requires the use of an approved heat-resistant lining (e.g. lining strip or silicone paper). Details about measuring joint cross-sections and about suitable linings can be obtained by consulting the latest **ZTV Fug-StB**.

After correct wall pre-treatment, the contact surfaces are primed across their whole area with **TOK®-Sil Primer**.

Air drying time is approx. 3-5 minutes at +23 °C (+73.4 °F).

After the primer has air-dried, the lining strip is inserted into the joint.

Application on vertical joints

Here, **TOK®-Sil Resist** is applied using a special machine (**SEALOMAT®**).

The material bars are filled into aluminum cartridges using a special extrusion tool. Immediately after filling, the material is inserted into the vertical joint area. The material must be applied immediately after filling into the extrusion tool to ensure that the heated compound can be easily pressed out of the gun.

Compound that has cooled too much inside the extrusion tool can no longer be pressed out.

Once the material has been completely

pressed out of the extrusion tool, it can easily be refilled with new material and used immediately.

Horizontal application

TOK®-Sil Resist can also be easily installed into horizontal joints using the extrusion tool.

For larger quantities, a special extrusion tool can also be used for working with the compound.

Benefits of TOK®-Sil Resist

In addition to the above-mentioned advantages of the compound as a system solution, **TOK®-Sil Resist** also has the important advantage that the compound, once applied, can be very easily repaired if it suffers damage for any reason. In this case, the damaged area is first carefully melted, e.g. with a hot air dryer. Old material must be removed. The new compound can then be applied to this prepared area and, if necessary, trowelled smooth using e.g. a hot jointing iron. Necessary repairs can therefore be carried out quickly and easily.

Please ensure compatibility with coating materials, e.g. silo varnish.

Ordering Information and Packaging

TOK®-Sil Resist is supplied in bar form.

Application equipment is available on request.

| Product name | Order number | Packaging units |
|------------------------------------|--------------|---|
| TOK®-Sil Resist | on enquiry | Supplied in bar form in boxes, 30 kg/box and 12 boxes per pallet (360 kg) |
| TOK®-Sil Primer | on enquiry | 5.0 l pail |
| Compound usage 1.13 kg/l (approx.) | | |

Storage

TOK®-Sil Resist can be stored for at least 3 years from the date of manufacture when tightly sealed in its original box.

TOK®-Sil Primer can be stored for at least 3 years from the date of manufacture in its unopened original packaging.

Both products must be stored in a cool and dry place, and must not be exposed to direct sunlight or frost.

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