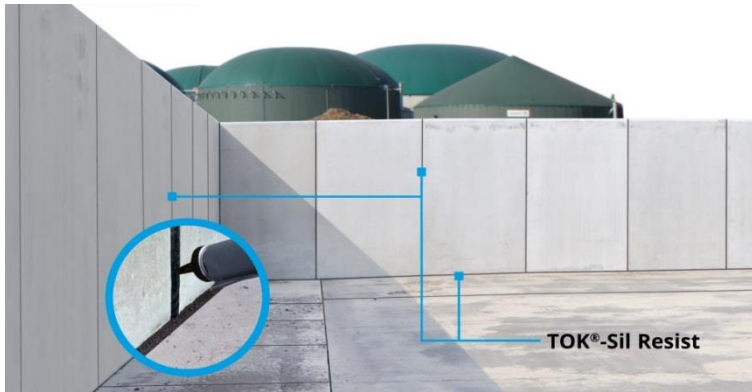


# TOK®-Sil Resist

## 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.
- 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.

For a century now, DENSO Group Germany represents experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany establishes and guarantees the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement 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.

The temperature of the storage substrates must not exceed +30°C (+86°F) when in contact with the joint sealing system. During the ensiling process, the joint sealing system may be exposed to temperatures of +40°C (+104°F) for a short time.

## 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	100 75 094	Supplied in bar form in boxes, 30 kg/box and 12 boxes per pallet (360 kg)
TOK®-Sil Primer	100 88 540	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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