TKK
SEAL

AQUARIUM SEALANT

PERMANENTLY ELASTIC SEALANT WITH EXCELLENT ADHESION TO GLASS. ONCE CURED IT DEVELOPS EXCELLENT MECHANICAL PROPERTIES AND IS PHYSIOLOGICALLY SAFE.

PROPERTIES

- Excellent adhesion to glass, ceramics, glazed surfaces, aluminium and profiled glass.
- Does not slump in vertical joints.
- Excellent mechanical properties.
- Resistant to atmospheric effects, UV-light and ageing.
- Resistant to various chemicals.
- Releases acetic acid during hardening.
- Long storage life.
- Once cured, it is physiologically safe.
- Colour: transparent.

TESTS AND CERTIFICATES

EMICODE EC 1+	emissions test

USE

- For mounting glass in the manufacture of aquariums, sealing of large-scale glass constructions as well as for sealing glass, ceramics and aluminium.

TECHNICAL DATA

Fresh sealant

Basis		acetic acid silicone
Appearance		paste
Curing mechanism		by air humidity
Specific gravity		1020 ± 10 kg/m^3
Skin formation time	23 °C/50 % rel. humid.	20 min.
Hardening time	23 °C/50 % rel. humid.	2 mm/day
Resistance to flow	SIST EN 27390	0 mm
Application temperature		between +5 °C and +40 °C

Cured sealant

Hardness Shore A	ISO 868	20-30
Tensile strength	EN 28339	0.50-0.70 MPa
Module E 100 %	EN 28339	0.40 MPa
Elongation at break	EN 28339	100-150 %

Tensile strength	ISO 37 rod 1	> 1.70 MPa
Elongation at break	ISO 37 rod 1	> 250 %
Change in volume	ISO 10563	< 10 %
Elastic recovery	SIST EN 27389	> 90 %
Temperature resistance		between -40 °C and +180 °C

APPLICATION

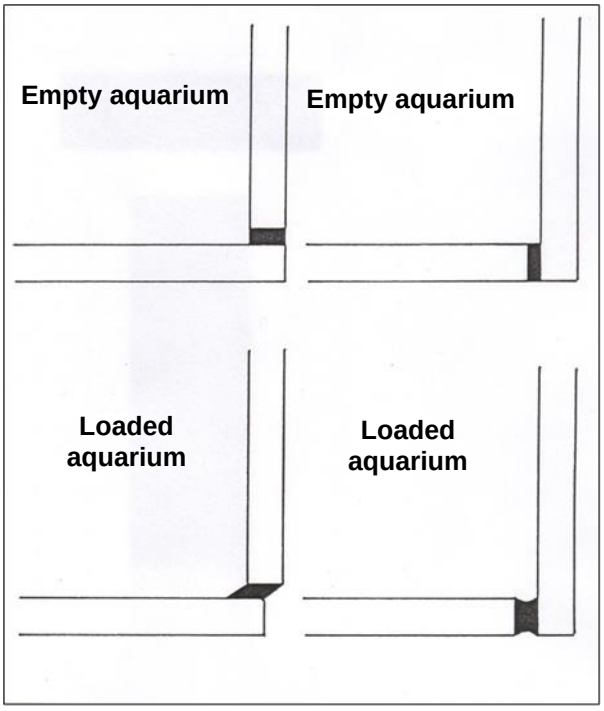
Prior to use it is recommended to perform a test to verify adhesion of the adhesive to the substrate.

Surface preparation:

In the past, the construction of aquarium was associated with a large consumption of sealant. Glass was put in metal frames and sealed with special sealants, usually bee wax.

Nowadays, aquariums are constructed without the use of metal frames. Glass is sealed using silicone-based sealants. An additional mechanical fastening is required until the sealant hardens. Make sure the mass is completely hardened before filling the aquarium with water. Considering the properties of glass and silicone, aquariums of various forms can be manufactured.

Surfaces to be sealed must be clean, dry and dust- and fat free. The water pressure in the tank is distributed to the upper edges of the glass surfaces as well. We must pay attention to the sealing technique.



Warning:

If you put blue coloured medication in the water, the silicone might turn blue over time.

PACKAGING

- 300 ml cartridge.
- 200 l drum.

STORAGE

12 months in a dry and cold place under 25 °C in originally closed packaging.

HEALTH, SAFETY HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TKK distributor for a copy.

WARNING

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.

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