



NEUTRAL SILICONE 432

Technical Data Sheet nr. TC-SIL-001

Description

432 is a fast grip, ready-to-use monocomponent neutral silicone elastomer, and is an excellent choice for sealing joints and sticking. Cures at room temperature, and turns into a low elasticity rate soft joint.

Wide movement resistance up to 25 % during continuous duty, in a wide range of temperatures.

Usage examples

432 is an excellent choice for usage in construction and glassworks, sealing joints and sticking jobs such as follows:

- Frame joints in wood, aluminium or PVC carpentry.
- Elastic sealing for glassworks, doors and windows.
- Expanding joints in facades and curtain walls works.
- Ventilation screens and piping pass-through hoses.
- Joints for boats, caravans and mobile-homes.

Features

432 offers a good adherence without previous priming, and is neutral vs. many materials, such as glass, treated glass, anodized and thermolacquered aluminium, steel and stainless steel, rigid PVC, concret and other porous bases.

After curing, offers an excellent resistance vs. solar UV-rays, ozone, rain and snow for many years

Characteristics

1. non-cured product characteristics

Type	<i>Alcoxy</i>
Colour	<i>Translucent, white</i>
Density	<i>1,01</i>
Tearing resistance (EN 27390, mm, aprox)	<i>0</i>
Extrusion g/min, aprox. (acc. to NMRPS 495A 3mm/3Bar)	<i>60</i>
Viscosity (3000N/m ² a 20°C)	<i>140</i>



Characteristics

2. cure

Skin formation time (23°C, 50% rel. humidity, min., aprox.)	6 - 8
Skin over time (23°C, 50% rel. humidity, min., aprox.)	35
Application temperature	from +5°C up to +40°C
Cure (23°C, 50% rel. humidity., min., aprox.)	
- mm/1st day, aprox.	4
- mm/3rd day, aprox.	7,5
- mm/7th day, aprox.	10

3. Cured product characteristics

Hardness - Shore A (Shore A, ISO 868, aprox.)	20
Movement resistance (% aprox.)	25

Mechanical properties– 2-mm-thick film (NF T 46002)

100% modulus (Mpa, aprox.)	0,3
Break resistance (MPa, aprox.)	1,1
Elongation at break (%, aprox.)	480

Mechanical properties on glass test-plate (EN28339)

100% modulus (Mpa, aprox.)	0,3
Break resistance (MPa, aprox.)	0,5
Elongation at break (%, aprox.)	260



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Standards	432 meets ISO 11600 standard, clasified : ISO 11600 – F&G – 25LM, glass, aluminium, concret (without priming)
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Usage indications	<p>Surface preparation: Surfaces must be clean, dry, and free of dust, grease or any other substance that may alter the product adherence. Degrease surface using a solvent wedded scourer, and dry with a clean dry cloth.</p> <p>No primer is necessary for most surfaces, safe joints that may be submerged, mainly for porous materials.</p> <p>Joint dimensions: Movement resistance of the product and local regulation must be taken into account. For the best performance of the product, minimal section of the joint shall be of 5x5 mm; for joints longer than 12 mm, thickness shall generally be about half the length. Joint height will be given by the gap depth, once the correspondant back-up product is applied.</p> <p>Product installation: After applying the back-up product (i.e. polyethylene or polyurethane foam) product must be applied to completely fill the gap. Joint finish ensures a sound contact between surfaces to be sealed. Joint surface finish must be done using a puty knife, before surface skin formation. Areas stained with fresh silicone may be clean with a dry or solvent wedded cloth (compatible with surface material). Cured silicone can be removed by scraping (i.e. with a razor), or also using a special solvent for silicone.</p>
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Limitations	<p>432 must not be used with materials that may exude certain emanation along the time. For possible usage with mirrors, a previous test is required, in order to ensure compatibility with mirror back paint.</p> <p>432 is not recommended for aquaria or swimming pools joints. For any other use in immersion, please consult.</p> <p>432 must not be used for any application in contact with food. Joints must not be painted. In case of application on glicerophthalic paints a slight yelowness may appear around the joint edges.</p>
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Packing	
Storage and shelf life	<p>Maximum warranted life shelf for the product is 12 months from the date of manufacture (sell-by date printed on the cartridge). Product must be stored at a temperature between –20°C and +30°C (0°F to 86°F aprox), in its original sealed cartridge.</p> <p>Beyond this lapse TECSEAL, S.A. does not warrant that the product keeps its selling specifications.</p>

Safety	Please consult Safety Datasheet.
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Warning:

Information in this document has been provided in good faith, and is based in the actual state of our knowledge. This information has only an indicative purpose, and it does not therefore mean any engagement from our side, mainly vs. third parties' rights concerning our the use of our products.

The company TECSEAL, S.A. warrants that its products meet all selling specifications.

This document must not replace possible previous test to ensure the suitability of the product in every case.

It is user's responsibility to respect every local regulation, standard or authorisation that might exist.

We invite our products users to check that they have the last updated version of the present document. The company TECSEAL remains at your disposal to provide you with any further information could you need.