

PRODUCT DATA SHEET

Date: 01.01.2021

FINOTECH® SQ-680

Sodium Silicate adhesive

Description

FINOTECH® SQ-680 is a one component, ready to be used, sodium silicate (water glass) adhesive. It is being used for surface bonding in sandwich applications in the field of fire protection building and industrial components.

Features

- Ease of application - Ready to be used
- Bonding mineral wool, silicate-, gypsum, MGO-boards to galvanized and stainless-steel sheets
- High safety to pass fire tests for fire doors and further components

Approvals/Specifications/Certifications/Tests

EN 13501-1 / A1 Euro class Adhesive

Product Characteristics

SQ-680 Product Properties (20°C-50% r.H)			
Property	Method	Unit	Value
Colors	Hard Dry		Grey RAL 7039
Density	EN 542	g/cm ³	1.56
Viscosity	Brookfield +20°C (06/200 min ⁻¹)	mPa·s	2.750 - 25.000
Open time	150µ on glass	sec	90
ph value	EN 1245	ph	11,5
Applied quantity	Depending carrier material	g/m ²	150 - 300
Pressing power		N/mm ²	0.2 – 0.4
Processing temperature	Adhesive and substrate	°C	+8 to +30
Heat resistance		°C	Max. 800 App. 35

Data given were determined shortly after production and may slightly vary with increasing age of product. They are not meant for specifications purposes. Customers are obliged to run their own application tests.

Application Information

Acclimatize the product before the application.

Agitate the adhesive to get a homogeneous substance before processing.

The surfaces of the workpieces to be bonded must be dry, and free from dust and grease.

The adhesive is homogeneously applied on one of the surfaces of the parts to be bonded using a spatula, an adhesive application roll or a bead application unit.

One of the material substrates must be absorbent.

In case of metallic surfaces, it will be enough to apply the adhesive on one side of the metal surface.

The workpieces must be fit together and pressed within the open time.

After they have been fit together, the parts must be fixed and pressed until functional strength has been reached.

They can be pressed on under cold or hot condition.

Remove oozing adhesive when it is fresh. Tool cleaning for not-cured adhesive with water.

Please consider that the fresh adhesive can cause corrosion on blank metal surfaces if it can act there for a longer term. After the adhesive has cured, no cases of corrosion are known that can be attributed to cured adhesives.



The here specified time parameters can only be determined accurately by self-tests because they are strongly influenced by material characteristics, temperature, applied quantity, air humidity, material humidity, thickness of adhesive film, press power, and other criteria. Usually, appropriate safety factors are considered for the guiding values.

Only instructed personnel in specialist firms are allowed to use the product.

Consider the Material Safety Data Sheet provide.

Packaging

FINOTECH® SQ-680 is available in:

- 13.2 litre bucket, net weight 15kg
- IBC 1000 litre, net weight 1600kg
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Shelf-life and Storage

Store the hermetically closed original trading units in a dry place at temperatures of +15 °C to +25 °C no direct sun radiation. While transported within the usual transport times, the product may not be exposed to temperatures of -30 °C to +35 °C. Storage life in unopened original packaging: 12 Months

Handling Precautions

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard

information. The material safety data sheet is available on the FINOTECH Website (www.finotech.ch).

Health and Environmental

To support Customers in their product safety needs, FINOTECH has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available. For further information, please see our website www.finotech.ch or consult your local FINOTECH representative.

Limited Warranty

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestion of use shall not be taken as inducements to infringe any patent. FINOTECH's product warranty confirms our products will meet always the technical data sheets values for the duration of the granted shelf-life if all advises given by FINOTECH through application, storage and handling guidelines have been followed up correctly. Customers can be asked to protocol and proof that the guidelines were followed. FINOTECH specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability others than described in our technical data sheets. FINOTECH's product warranty disclaims liability for any incidental or consequential damages.