

PRODUCT DATA SHEET

Sikasil® WT-488

Two-part, non-corrosive, fast-curing silicone sealant and adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

| Properties | Component A Sikasil® WT-488 | Component B Sikasil® AS-785 |
|--|--------------------------------|--------------------------------|
| Chemical base | 2-component silicone | |
| Color (CQP001-1) | White | Black |
| | mixed | Grey |
| Cure mechanism | Polycondensation | |
| Cure type | Alkoxy | |
| Density (uncured) | 1.27 kg/l (10.6 lb/gal) | 1.06 kg/l (8.9 lb/gal) |
| | mixed | 1.25 kg/l (10.4 lb/gal) |
| Mixing ratio | A:B by volume | 10:1 |
| | A:B by weight | 12:1 |
| Viscosity (CQP029-5 / ISO 3219) | 860 Pa·s | 400 Pa·s |
| Consistency | Paste | |
| Application temperature | 5 – 40 °C (41 – 104 °F) | |
| Snap time (CQP554-1) | 10 minutes ^A | |
| Tack free time (CQP019-3) | 40 minutes ^A | |
| Shore A hardness (CQP023-1 / ISO 48-4) | 35 | |
| Tensile strength (CQP036-1 / ISO 527) | 2.0 MPa (290 psi) | |
| 100 % modulus (CQP036-1 / ISO 527) | 0.6 MPa (85 psi) | |
| Elongation at break (ASTM D412) | 300 % | |
| Service temperature (CQP513-1) | -40 – 150 °C (-40 – 302 °F) | |
| Shelf life | 15 months ^B | 9 months ^B |

CQP = Corporate Quality Procedure

^A 23 °C (73 °F) / 50 % r. h.^B stored below 25 °C (77 °F)
DESCRIPTION

Sikasil® WT-488 is a two-part, non-corrosive, fast-curing silicone sealant and adhesive for structural bonding of insulating glass units into window frames and for back-bedding applications.

PRODUCT BENEFITS

- Meets the requirements of AMAA 802.3 and AMAA 805.2
- Designed for adhesion to a wide variety of substrates
- Very good mechanical properties for window bonding applications
- Superior UV and weathering resistance
- Remains flexible over a wide temperature range
- Long-term durability

AREAS OF APPLICATION

Sikasil® WT-488 has a wide adhesion range on many substrates such as glass, (coated) metal, wood, PVC and many other substrates. In combination with its good mechanical properties, this makes the adhesive suitable for structural bonding of insulating glass units into window frames and for back-bedding applications. It is further suitable for demanding industrial bonding and sealing applications.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

PRODUCT DATA SHEET

Sikasil® WT-488

Version 03.01 (04 - 2023), en_US
012703140889001000

CURE MECHANISM

Sikasil® WT-488 starts to cure immediately after mixing the 2-components.

The speed of the reaction depends mainly on the temperature, i.e. the higher the temperature the faster the curing process. Do not heat above 50 °C (122 °F), as this could lead to bubble formation.

The mixer open time, i. e. the time the material can remain in the mixer without flushing or extrusion of product, is significantly shorter than the snap time indicated above.

METHOD OF APPLICATION

Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

Application

The optimum temperature for substrate and process material is between 15 °C and 25 °C (59 °F and 77 °F).

Before processing Sikasil® WT-488 both components have to be mixed homogeneously and air-bubble-free in the correct ratio as indicated with an accuracy of ±10 %. Most commercially available metering and mixing equipment are suitable. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Consider that the B-component is moisture-sensitive and must therefore only be exposed briefly to air.

Joints must be properly dimensioned.

Basis for calculation of the necessary joint dimensions are the technical values of the adhesive and the adjacent building materials, the exposure of the building elements, their construction and size as well as external loads.

Tooling and finishing

Tooling and finishing must be carried out within the snap time of the adhesive.

When tooling freshly applied Sikasil® WT-488, press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents must be used.

Removal

Uncured Sikasil® WT-488 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using a suitable industrial hand cleaner and water.

Do not use solvents on skin.

Overpainting

Sikasil® WT-488 cannot be overpainted.

Application Limits

To exclude materials influencing Sikasil® WT-488, all materials such as gaskets, setting blocks, sealants, etc., in direct and indirect contact have to be approved by Sika in advance.

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next one.

The above mentioned Sika process materials may only be used in structural glazing or window bonding applications after a detailed examination and written approval of the corresponding project details by Sika Industry.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets

PACKAGING INFORMATION

Sikasil® WT-488 (A)

| | |
|------|--------|
| Drum | 260 kg |
|------|--------|

Sikasil® AS-785 (B)

| | |
|------|-------|
| Pail | 20 kg |
|------|-------|

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.

PRODUCT DATA SHEET

Sikasil® WT-488

Version 03.01 (04 - 2023), en_US
012703140889001000

Sika Corporation

30800 Stephenson Highway
Madison Heights, MI 48071
U.S.A.

Telephone: +1 248-577-0020

Email: tsmh@us.sika.com

www.sikausa.com

