BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-715 WS

LOW-MODULUS WEATHER SEALANT FOR CURTAIN WALL AND METAL CLADDING FACADES

DESCRIPTION

Sikasil®-715 WS is a silicone-based, 1-component, neutral cure, UV-stable, moisture curing, low-modulus elastic weather sealant. Suitable for use in hot and tropical climatic conditions.

USES

- Sikasil®-715 WS is designed for weather proofing and sealing applications where durability under severe conditions is required.
- Sikasil®-715 WS is particularly suited for use as a weather sealant for curtain wall and metal cladding facades.
- Sikasil®-715 WS can be used for wet area joints in bathroom, toilet and kitchen and around the sanitaryware.
- Joint sealing of natural stones (contact Sika Technical Services prior to application).
- Sikasil®-715 WS can be used in Concrete, Brickwork, Precast and GRC sealing applications.

FEATURES

- Very good weathering resistance
- Movement capability of ±50 % (ASTM C719)
- Good adhesion to a wide range of substrates
- Low VOC content
- Antifungal (ASTM G21)
- Non-staining (ASTM C1248)

SUSTAINABILITY

- Certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL)

CERTIFICATES AND TEST REPORTS

- ASTM C920, class 50
- VOC test report (US EPA 24)
- VOC Emission Test Report (CDPH)
- Tested acc. to ASTM G21
- Tested acc. to ASTM C1248
- Tested acc. to ASTM D412

PRODUCT INFORMATION

Composition	Neutral cure silicone
Packaging	300 ml cartridge, 12 cartridges per box 600 ml foil pack, 20 foil packs per box
Colour	Black, white, grey, beige, brown and champagne (other colors on request)
Shelf life	Cartridge - 12 months Unipack (foil pack) - 12 months
Storage conditions	Sikasil®-715 WS shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Density	~1.2 kg/l
Volatile organic compound (VOC) content	≤ 50 g/l (US EPA 24)

TECHNICAL INFORMATION

Shore A hardness	~25 (after 28 days)	(CQP023-1 / ISO 7619-1)
Tensile strength	~0.9 MPa ~1.7 N/mm²	(CQP036-1 / ISO 527) (ASTM D412)
Movement capability	± 50 %	(ASTM C 719)
Service temperature	–40 °C to +150 °C	
Joint design	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 6 mm and ≤ 45 mm. The joint depth shall be ≥ 6 mm and ≤ 15 mm. A width to depth ratio of 2:1 must be maintained (for exceptions, see table below).	

Typical joint dimensions

Joint Width [mm]	Joint Depth [mm]
10	6
15	8
20	10
30	15
45	15

All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints. For larger joints please contact Sika technical service.

Elongation at break	~600 % ~750 %	(CQP036-1 / ISO 527) (ASTM D412)

APPLICATION INFORMATION

Consumption

Joint length [m] per 600 ml foil pack	Joint width [mm]	Joint depth [mm]
10	10	6
5	15	8
3	20	10
2	25	12
1.3	30	15

Backing material	Use closed cell, polyethylene foam backing rods.	
Ambient air temperature	+5 °C to +40 °C, min. 3 °C above dew point temperature	
Substrate temperature	+5 °C to +40 °C	
Curing rate	~2 mm / 24 hours (23 °C / 50% r.h.)	(CQP 049-2)
Skinning time	~35 minutes (23 °C / 50% r.h.)	(CQP 019-1)
Tack free time	~80 minutes (23 °C / 50% r.h.)	(CQP 019-3)

BASIS OF PRODUCT DATA

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

FURTHER DOCUMENTATION

- Safety Data Sheet (SDS)
- Pre-treatment Chart Sealing & Bonding
- General Guidelines Sikasil® Weather Sealants

IMPORTANT CONSIDERATIONS

- Sikasil®-715 WS cannot be overpainted.
- Colour variations may occur due to exposure to chemicals or other extreme external influences. However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Before using Sikasil®-715 WS on natural stone, refer to Sika Technical Services for advice.
- Do not use Sikasil®-715 WS on bituminous substrates, natural rubber or any building materials which might bleed oils, plasticizers or solvents that could attack the sealant. EPDM or other gaskets in direct contact with Sikasil®-715 WS have to be tested for compatibility prior to application. For specific advice contact Sika technical service.
- Do not use Sikasil®-715 WS on pre-stressed polyacrylate and polycarbonate as it may cause environmental stress cracking (crazing).
- Do not use Sikasil®-715 WS to seal joints in and around swimming pools.
- Do not use Sikasil®-715 WS for joints under water pressure or for permanent water immersion.
- Do not expose uncured Sikasil®-715 WS to alcohol containing products as this may interfere with the curing reaction.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. The following priming and/or pre-treatment procedures shall be followed:

Non-porous substrates
Float glass, coated glass, anodised aluminium and stainless steel have to be pre-treated using Sika® Aktivator-205, Sika® Aktivator-100 or Sika® Cleaner P. Powder coated and PVDF coated metals have to be pre-treated using Sika® Aktivator-205. For details like application and flash-off times refer to the most recent PDS of the respective pre-treatment product.

Porous substrates
Concrete, aerated concrete and cement-based renders, mortars and bricks shall be primed using Sika® Primer-3 N or Sika® Primer-210. For details like application and flash-off times refer to the most recent PDS of the respective pre-treatment product.

Adhesion tests on project specific substrates must be performed prior to application. For more detailed advice and instructions please contact Sika technical service. Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly.

APPLICATION METHOD / TOOLS

Sikasil®-715 WS is supplied ready to use.
After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply pre-treatment if necessary. Insert a foil pack or cartridge into the sealant gun and extrude Sikasil®-715 WS into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikasil®-715 WS sealant must be firmly tooled against the joint sides to ensure adequate adhesion.
It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208 and/or Sika® Cleaning Wipes-100. Once cured, residual material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.