

PRODUCT DATA SHEET

Sikasil® AP

NEUTRAL CURING SILICONE SEALANT

DESCRIPTION

Sikasil® AP is a one part neutral curing multi purpose silicone sealant suitable for indoor and outdoor applications.

USES

Sikasil® AP is used as a general purpose sealant for joint sealing between various substrates such as glass, metals, wood, ceramic tiles, concrete.

CHARACTERISTICS / ADVANTAGES

- Provides primerless adhesion to a wide range of substrates
- Very good UV and weathering resistance
- Low odour
- Non corrosive

PRODUCT INFORMATION

| | | |
|-------------------------------|---|------------------------------|
| Composition | Neutral cure silicone | |
| Packaging | 300 ml cartridge, 12 cartridges per box | |
| Colour | Transparent, Grey, White, Black | |
| Shelf life | 12 months from date of production | |
| Storage conditions | The product must be stored in original, unopened and undamaged sealed packing in dry conditions at temperature between +5°C and +25°C. | |
| Density | ~ 1,25 kg/l Coloured ~ 1,02 kg/l Transparent | (ISO 1183-1) (ISO 1183-1) |
| Shore A hardness | ~ 25 (after 28 days) Coloured ~ 19 (after 28 days) Transparent | (ISO 868) (ISO 868) |
| Tensile strength | ~ 1.1 N/mm ² (+23°C / 50% r.h.) Coloured ~ 0.9 N/mm ² (+23°C / 50% r.h.) Transparent | (ISO 37) (ISO 37) |
| Secant tensile modulus | ~ 0.4 N/mm ² at 100% elongation (+23°C / 50% r.h.) Coloured ~ 0.3 N/mm ² at 100% elongation (+23°C / 50% r.h.) Transparent | (ISO 37) (ISO 37) |
| Elastic recovery | > 80% (+23°C / 50% r.h.) | (ISO 7389) |
| Elongation at break | ~ 650 % (+23°C / 50% r.h.) Coloured ~ 550 % (+23°C / 50% r.h.) Transparent | (ISO 37) (ISO 37) |
| Tear strength | ~ 1.0 N/mm ² (+23°C / 50% r.h.) | (ISO 34 method C) |
| Service temperature | -40°C to +120°C | |

Joint design

The joint width must be designed to be within the movement capability of the sealant. In general the joint width must be > 6 mm and < 12 mm. A width to depth ratio of 2:1 must be maintained (for exceptions, see table below).

| Joint Width [mm] | Joint Depth [mm] | Joint Length [m] per 300ml cartridge |
|------------------|------------------|--------------------------------------|
| 6 | 4 | ~ 12.5 |
| 9 | 5 | ~ 6.5 |
| 12 | 6 | ~ 4.0 |

APPLICATION INFORMATION

| | | |
|-------------------------|---|------------|
| Sag flow | < 2 mm | (ISO 7390) |
| Ambient air temperature | +5°C min. / +40°C max. | |
| Substrate temperature | +5°C min. / +40°C max. min. 3°C above dew point temperature | |
| Curing rate | ~ 2 mm / day (+23°C / 50% r.h.) | |
| Skinning time | ~ 8 min (+23°C / 50% r.h.) | |

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

SUBSTRATE PREPARATION

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.

APPLICATION METHOD / TOOLS

Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing. Joint Backing After the required substrate preparation, insert a suitable backing rod to the required depth.

Priming

Prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

Application

Sikasil® AP is supplied ready to use. Prepare the end of the cartridge, insert into the sealant gun and fit the nozzle. Extrude Sikasil® AP into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, Sikasil® AP must be firmly tooled within 5 minutes against the joint sides to ensure adequate adhesion and a smooth finish. Masking tape is then removed immediately. Uncured material can be removed by using a suitable solvent or an approved sealant remover.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® TopClean-T / Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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