

PRODUCT DATA SHEET

SikaBaffle®-280

2-component foam for automotive cavity sealing

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	2-Component Polyurethane-Foam
Color	Green
Density freely foamed (DIN EN 17333)	43 g/l
Yield (DIN EN 17333-1)	12 l
Application temperature	product 10 – 25 °C ambient 5 – 35 °C
Pot-life	after activation 5 minutes ^A
Tack free time (DIN EN 17333-3)	6 minutes ^A
Cutting time (DIN EN 17333-3)	7 minutes ^A
Thermal resistance	-40 – 80 °C
Water absorption uncut	after 24 hours 0 kg/m ²
Shelf life	12 months ^B

CQP = Corporate Quality Procedure

^{A)} 23 °C / 50 % r.h.^{B)} storage in a sealed container in up-right position in a dry place at 10 – 20 °C

DESCRIPTION

SikaBaffle®-280 is a 2-component polyurethane-based acoustic foam for manual cavity sealing in the automotive body construction. It is used to protect against noise, air, moisture, and dust in vehicles.

PRODUCT BENEFITS

- Effective sound insulation properties
- Good adhesion to a wide variety of substrates
- High initial tack
- Controlled, homogeneous expansion into cavities
- No post-expansion or shrinkage after curing
- Curing without baking
- Simple and controlled dispensing
- Visual mixing indicator for correct component ratio

AREAS OF APPLICATION

SikaBaffle®-280 is specifically designed for cavity filling and acoustic insulation in automotive body structures, such as A-, B-, and C-pillars, roof rails, engine rails, tailgates, and rocker panels.

SikaBaffle®-280 adheres well to common automotive body materials, except for low-energy or contaminated surfaces such as polyethylene, Teflon®, silicone, oil, grease, or similar substances.

SikaBaffle®-280 is intended for manual use in both manual vehicle production (CKD) and OEM workshop environments.

This product is suitable for use by experienced professionals only. Adhesion and material compatibility must be verified through testing on actual substrates and under real application conditions.

CURE MECHANISM

Curing of SikaBaffle®-280 occurs through a chemical reaction of the two mixed components.

Low temperatures prolong and high temperatures shorten the curing time

METHOD OF APPLICATION

Product preparation

The two components are pre-mixed in the can. One component is colored, allowing visual confirmation of proper mixing - a homogeneous green color indicates that the foam meets the required quality standards.

Surface preparation

Surfaces must be dry, clean and free from grease, oil and contaminants.

Application

- Remove the protective cap from the valve and firmly screw the angle adapter onto the valve. Ensure it is tight, but do not overtighten.
- Turn the transparent rotating wing at the bottom of the can four full turns clockwise.
- Shake the can vigorously for 20 seconds to activate. A rattling sound will confirm that the internal hardener container has opened.
- Wait 30 seconds before beginning foam application. Always keep the valve pointed downward during use.
- Check the foam color. A uniform green color in the extruded foam indicates proper activation.
- If the foam is not green, repeat the activation process starting from Step 2 until green homogeneous color is reached.

The discharge level of SikaBaffle®-280 can be precisely controlled by tilting the adapter while keeping the valve pointed downward. Activate the can only immediately before use to avoid pressure build-up and prevent excess material discharge during the initial injection.

Important: After activation, the can must be fully emptied within 5 minutes (pot life). Failure to do so may result in dangerous pressure build-up if the can is exposed to temperatures exceeding +50 °C.

Tooling and finishing

Once cured, SikaBaffle®-280 can be processed mechanically by cutting, grinding, or sawing as needed.

Removal

Uncured SikaBaffle®-280 can be cleaned from tools and equipment using Sika® Remover-208 or another suitable solvent. Cured foam can only be removed mechanically. Hands and exposed skin have to be washed immediately using hand wipes such as Sika Cleaner-350H or a suitable industrial hand cleaner and water. Do not use solvents on skin.

Application limits

SikaBaffle®-280 must not be exposed to prolonged sunlight, as it is not permanently UV-resistant.

The optimum working temperature for this product is +20 °C. Do not use cans that exceed +25 °C.

The information provided above is intended for general guidance only. Advice on specific applications will be given on request by Sika's technical department.

SPECIAL NOTE

Local Restrictions

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

STORAGE CONDITIONS

The can must be stored in upright position in the original and unopened packaging in a dry place at a temperature between 10 °C and 20 °C and at a relative humidity of maximum 50 %. Do not expose to sunlight. Storage outside of standard conditions can affect the shelf life or the performance of the product.

FURTHER INFORMATION

Copies of the following publications are available on request:

- Safety Data Sheet

PACKAGING INFORMATION

Aerosol can	400 ml
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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.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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.

PRODUCT DATA SHEET

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