

SikaGard®-6682

Water based sound deadening & anti chip underbody coating with excellent adhesion on e-coat and paints

Typical Product Data

Chemical base	Water-based acrylic dispersion
Color	Dark grey
Cure mechanism	Air-drying
Density (liquid) (ISO 12185)	1.5 kg/l
Solid content (CQP ¹ 002-2)	74%
Viscosity ² Rheolab QC CC 27 rotational at shear rate 1s ⁻¹	165 Pa.s
Application temperature	5 - 35°C (40 - 95°F)
Touch dry time ² 3 mm wet layer	5 hours approx.
Drying time ² (3 mm wet layer) at 40°C (105°F) at 60°C (140°F)	48 hours 16 hours 4 hours
Loss factor (ISO 6721-3) 3 kg/m ² applied on steel, 20°C, 200 Hz	0.22
Service temperature	-40 - 120°C (-40 - 250°F)
Shelf life (storage between 5°C and 30°C) 40°F - 85°F; prevent from freezing	9 months

¹ Corporate Quality Procedure ² 23°C (73°F) / 50% r.h.

Description

SikaGard®-6682 is a water-based spreadable and sprayable sound deadening and anti chip coating, based on an acrylic dispersion. It is used to dampen the structure borne sound emitted by metal or hard plastic sheets. Further SikaGard®-6682 provides an anti-stone chip coating to vulnerable parts of the vehicle and enhances the corrosion performance of pre-applied coatings. It is developed for use in transportation vehicles and to improve acoustical performance for equipment construction. It exhibits excellent adhesion on coatings and primers used in the transportation industry. SikaGard®-6682 is manufactured in accordance with ISO 9001/14001 quality assurance system and the responsible care program.

Product Benefits

- Excellent acoustic properties
- High resistance to abrasion
- Good sag resistance, no dripping
- Adhesion to various primers, metallic and wooden substrates
- Very good adhesion on paints and e-coats
- Very low water take up
- Overpaintable
- Easy to apply by spatula or spray
- Halogen-free

Areas of Application

SikaGard®-6682 is used for sound reduction of e.g. trains, busses, recreational vehicles, engine supports in cars, vehicle parts (doors, motor covers, etc.), air ventilation systems, containers. It also provides protection to vulnerable parts of the vehicle such as sills, wings, wheel arches and valances from stone chips. The product is suitable for professional experienced users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry



Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, label and Safety Data Sheet which are available on request at tsmh@us.sika.com. Nothing contained in any Sika 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 Data Sheet, label and Safety Data Sheet prior to product use.

Chemical Resistance

SikaGard®-6682 is resistant against water, seawater, salt spray, oil, bases and acids. The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

Surface preparation

Metal substrates must be coated (i.e. galvanization, primer coatings) in order to prevent corrosion where required. Surfaces must be clean, dry and free of rust, dust and grease.

Application

SikaGard®-6682 can be applied to small areas with a spatula. For larger areas, airless spraying equipment is recommended. Use a double-action stainless steel pump application system (metal parts that are in contact with SikaGard®-6682 need to be stainless steel). Contact the System Engineering of Sika Industry for specific advice for application equipment.

Tooling and finishing

SikaGard®-6682 can be applied up to 5 mm ($\frac{3}{16}$ in) in one application step. If the required acoustic damping performance needs higher thickness, a second application on the dried film is required. Applied coating must be sufficiently dried before exposure to wet conditions. Exact timings to be established on project related basis. Advice on specific applications is available from the Technical Department of Sika Industry at tsmh@us.sika.com.

Removal

Fresh SikaGard®-6682 can be removed from tools and equipment with water. Once dried, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Handclean towels or a suitable industrial hand cleaner and water. **Do not use solvents on skin!**

Overpainting

SikaGard®-6682 is over paintable in a dry state with commonly used conventional paint systems. Due to the

wide range of paints, adhesion and compatibility tests are always necessary.

Storage conditions

SikaGard®-6682 should be stored between 5°C and 30°C (40°F - 85°F). It must not be stored below 0°C (32°F).

Further Information

To contact Sika Corporation's Technical Services Department please send an e-mail to tsmh@us.sika.com.

Copies of the following publications are available on request:

- Safety Data Sheets

Packaging Information

Drum	195 L
Pails	23 L

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests only. 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.

Limited Material Warranty

Sika Corporation 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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **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.

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