

HEAVY DUTY VEHICLE UNDERBODY PROTECTION IMPROVED DURABILITY, LONGEVITY AND COMFORT WITH ACOUSTIC UNDERBODY COATING

INTRODUCTION

Most roads we travel are far away from being smooth and quiet. But then again public transport operators and government bodies are demanding high standards for interior and exterior vehicle noise. In addition, longevity and durability of the commercial transportation vehicles is required. Sika offers high-technology solution to facilitate significant reductions in vehicle noise via absorption of vibration within the vehicle body.

Sikagard®-6682 sound-deadening and anti-chip coating was developed for the transportation market to improve vehicle acoustic performance, reducing road noise and structure-borne vibration noise, to provide a quieter ride for both, drivers and vehicle occupants. It demonstrates excellent durability thanks to its high abrasion and impact resistance even at very low temperatures.



TECHNOLOGY OF Sikagard®-6682

Sikagard®-6682 is a 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.

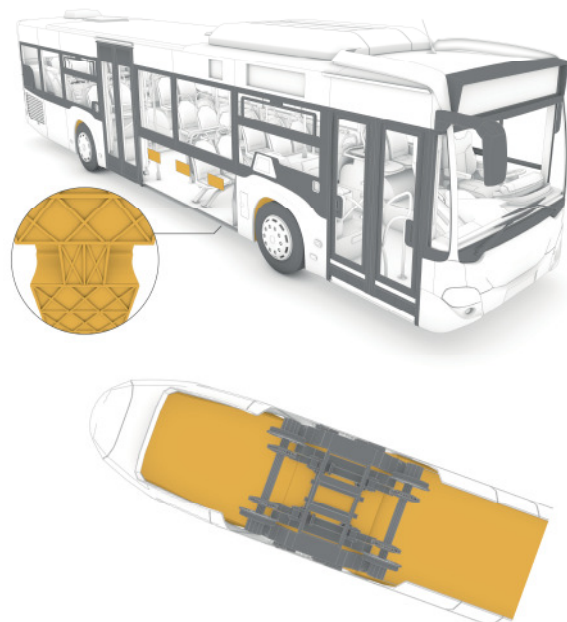
APPLICATION AREAS

Sikagard®-6682 is applied on the underbody of commercial transportation vehicles for stone chip and sound protection. It is further used for specific noise reduction areas inside the vehicles.

PRODUCT DATA & BENEFITS

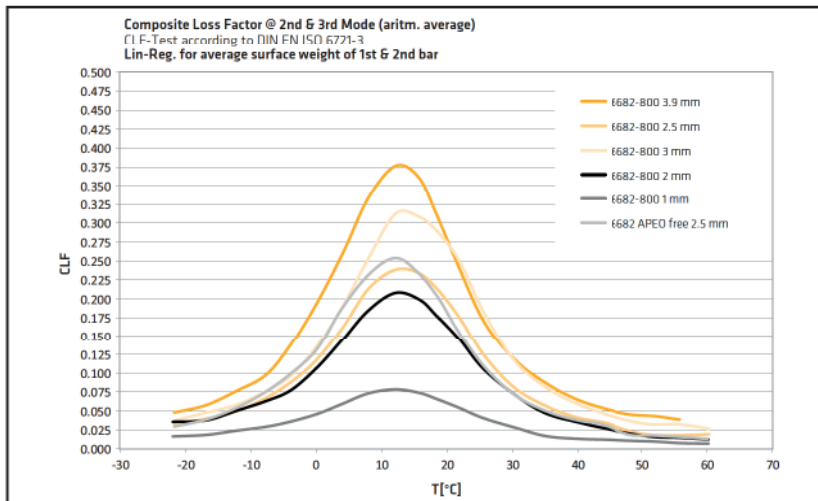
Application temperature	5 – 35°C
Drying time (2mm wet layer)	24 hours
Loss factor (ISO 6721-3) 3mm thickness on steel, 20°C, 200 Hz	0.25
Application thickness	1000 – 5000 µm
■ Excellent sag resistance, no dripping	
■ Excellent sound deadening effect	
■ High resistance to abrasion	
■ Solvent free	

For details consult the corresponding Product Datasheet and ask your Sika contact about availability in your country.



NOISE REDUCTION PERFORMANCE

Sikagard®-6682 provides significant performance in sound reduction on trains, buses, recreational vehicles, engine supports and vehicle parts. Customers have seen up to a 30% reduction in noise. Application thickness must be chosen based on noise reduction requirements. The Oberst Loss factor graph on the right shows the composite loss factor with different thicknesses applied at 200Hz frequency.



APPLICATION OF PRODUCT

In addition to providing noise reduction, Sikagard®-6682 is a durable anti-stone and anti-chip coating to vulnerable parts of the vehicle, helping to enhance corrosion performance of pre-applied coatings. It exhibits excellent adhesion to commonly used coatings and primers used in the transportation industry, including those on metallic and wood substrates. It has good resistance to abrasion and is over-paintable, making it a versatile option for many different areas on a vehicle.

Sikagard®-6682 was designed with the needs of modern manufacturing conditions in mind. The product is a water-based acrylic product and is easily applied with standard spray equipment without drips or mess. It can be applied up to 5 mm thick in one application with no sag, making it ideal for hard-to-reach areas in underbody situations. Applicators particularly like the “cleanliness” of the application and very limited overspray behavior with Sikagard®-6682. This all makes it a sustainable solution for workers, commercial vehicle producers and fleet operators.



Application on a train underbody



Wheel arch with Sikagard®-6682 applied

APPLICATION TOOLS

Sikagard®-6682 can be applied to small areas with a spatula. For larger areas airless spraying equipment is recommended. Usually double-action stainless steel pump systems are used. Contact the System Engineering of Sika Industry for specific advice for application equipment. Applied coating must be sufficiently dried before exposure to wet conditions. Exact timings has to be established on project related basis. Proper ventilation helps to ensure faster drying.

APPLICATION BY PUMP

For the application of SikaGard®-6682, it is recommended to use a double action stainless steel pump application system, eg. Graco D200. The product is available in 23L hobbocks and 195L drums.

RECOMMENDATIONS

- Use airless spray guns only!
- Nozzle size: 535
- 160 – 200 bar fluid pressure

HOSE

- 1/4" diameter and 1 – 2 m length prior gun
- 3/8" diameter and 3 – 4 m length
- 1 1/2" diameter feeding hoses



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LEGAL NOTE

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