



Adhesion Promoter

SurAChem[®] GS 145

for

Adhesives and Coatings
based on SH/En-, Polysulfide-
or Vulcanisable Polymers

Product Information

Adhesion Promoter SurAChem® GS 145

SurAChem®
GS 145

1. Introduction

The **SurAChem® GS 145** adhesion promoter is a liquid silane-based adhesion enhancing system, developed especially to apply with the SurABond® adhesives and SurACer® coatings but also with other utilizing products.

The SurAChem® adhesion promoter is appropriate for metal, glass, ceramics and, after appropriate activation, for plastic surfaces



2. Surface Pretreatment

The surface to be pretreated should be clean and degreased. Furthermore, the surface can be effectively activated by a silication flame-treatment with the SurAChem® VG 02 and VG 03 pretreatment devices. It is advantageous, however not mandatory, to heat up the surface or component after applying the SurAChem® GS 145 adhesion promoter to about 70 °C for 1 to 3 minutes.

3. Processing

Depending on the shape of the component, the application of the SurAChem® GS 145 adhesion promoter should be carried out as thin as possible by spraying, dip coating, roll coating or at smaller components by a brush, cotton swap or similar to achieve a dense adhesive layer. After evaporation of the solvent and, if necessary, short-term heating to 70 °C, the adhesive or coating can be applied in liquid form, hot-melt or powder, depending on the requirements of the components.

Caution! Rest-amounts, which have been previously taken from the associate storage container, storage vessel etc., cannot be once more within them collected. If so, the storage stability will be significantly reduced.



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Product Information

4. Performance Tests

Tensile shear strength test based on DIN 53283 standard.

The adhesion between PMMA and a thioether-based compound was tested by the determination of the tensile shear strength based on the DIN 53283 standard. The measurement was performed with non-pretreated jointing material surfaces as also with pretreated jointing material surfaces pretreated by a silication flame-treatment (SurASil[®] process) and the SurAChem[®] GS 145 adhesion promoter.

The results (Figure 1) show a low tensile shear strength of only 2 N/mm² with the non-pretreated surfaces. The pretreatment of the surface with the SurASil[®] process and the SurAChem[®] GS 145 adhesion promoter influences significantly the adhesion. As a consequence, the tensile shear strength can be increased by over 350%.

Tensile shear strenght test with the SurAChem[®] GS 145

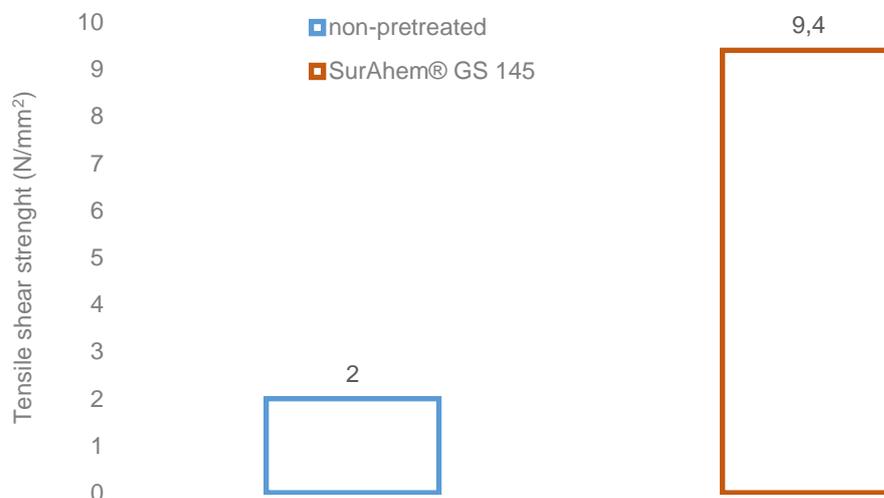


Figure 1: Increase of the tensile shear strength by the application of the SurAChem[®] GS 145 on PMMA materials adhesion promoter.

Product Information

5. Delivery Form

The SurAChem® GS 145 adhesion promoter is available in bottles, starting from 250 mL.

6. Storage

The SurAChem® GS 145 adhesion promoter is in unopened condition and at +5 °C stable for 6 months after delivery.

7. Instructions to Occupational and Health Safety

The SurAChem® GS 145 adhesion promoter contains isopropanol. The occupational- and health-safety requirements relevant for this solvent must be taken into consideration. Any type of contact with the solvent is not harmful after its evaporation and the termination of its chemical reaction.

8. Technical Data

Adhesion promoter	Color	Form	Application
SurAChem® GS 145	colorless	liquid	Adhesions and coatings based on SH-En, polysulfides or vulcanizable polymers

For eventual questions or doubts concerning your product, we encourage you to get in touch with SurA Chemicals GmbH.

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SurA Chemicals GmbH guarantees its products to be of perfect quality as stated in its general terms and conditions of sale and delivery.



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