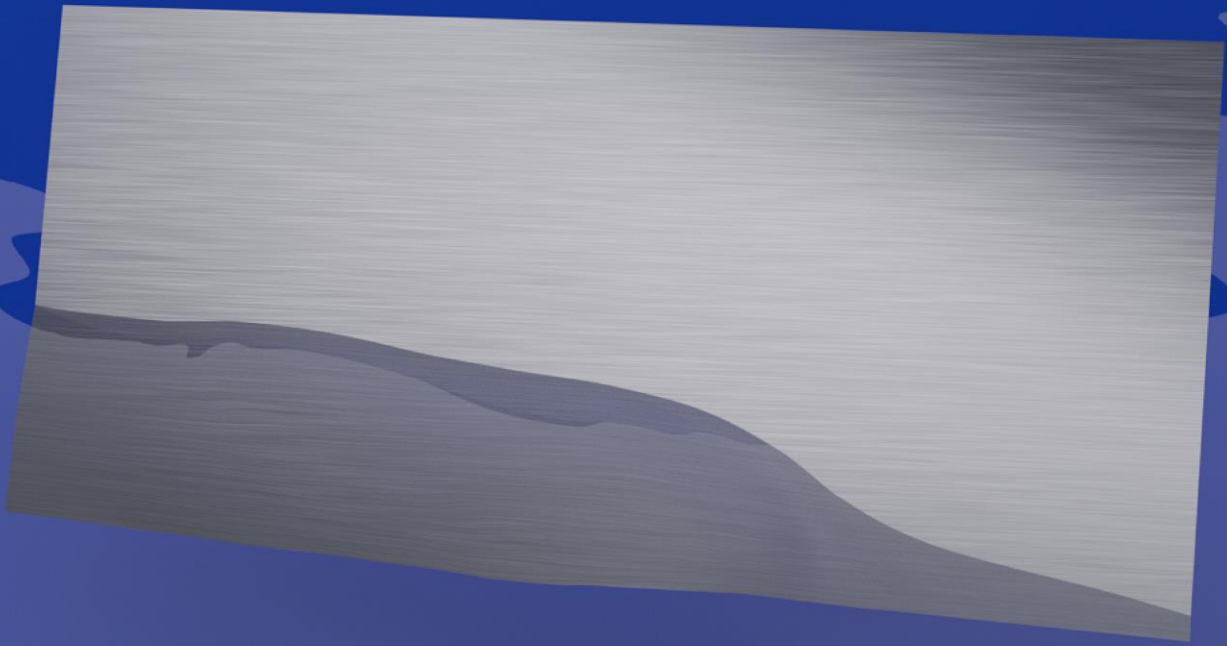


Adhesion Promoter

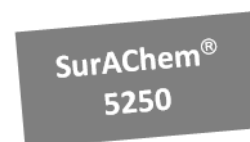
SurAChem[®] 5250

THE CHEMICAL IMMERSION TECHNIQUE



Product Information

Adhesion promoter **SurAChem[®] 5250**



The SurAChem[®] 5250 adhesion promoter is RoHS-compliant in accordance to the European directive 2011/65/EC. All ingredients are pre-registered according to REACH Regulation (EC) No. 1907/2006

1. Introduction

SurAChem[®] - 5250 is a no-rinse polymer-based adhesion promoter concentrate, free from chromium, which is developed especially for the coating of aluminum surfaces by dip coating. Water is used as solvent.

2. Surface Cleaning

The cleaning and degreasing of the surface occurs with a Magnus spray or similar cleaner with subsequent acid dip and rinsing with deionized water according to the state of technology. The further processing according to paragraph 3 should take place in-line. Evtl. breaks should not exceed 1 hour.

Recommended procedure:

- Dip or spray a 3% solution of Magnus
- Spray on the surface at 60 °C for 30 seconds
- Pickling with a 14% solution nitride acid for 30 seconds
- Wash up with deionized water

3. Further Proceeding

A 1% aqueous solution has to be prepared with the adhesion promoter concentrate before using. The application of the adhesion promoter can take place by dip coating. Therefore, the samples should dip into the aqueous solution at 30 °C for approx. 60 seconds. The surface coating can start immediately after drying of the adhesion layer.



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Product Information

4. Performance Tests

Application and curing of a polyurethane coating in 20 µm layer thickness

The results (Table 1) show an excellent adhesion of the polyurethane coating on an aluminum surface, pretreated with immersion technique. Both the cross-cutting and tempering of a 1T-bent sample show no coating defects.

Cross-cutting Test:	Gt = 0
Cross-cutting /Depth Test:	Gt = 0 at Depth 6
Bending Test/ Tempering:	1T 90°C 3h

Table 1: Performance tests with polyurethane coating on pretreated aluminum surface,

5. Delivery Form

SurAChem® 5250 - concentrate is available in flasks starting from 1 L.

6. Storage

SurAChem® 5250 is stable at room temperature and dry conditions for at least 6 months after delivery.

7. Instructions to occupational health and safety

SurAChem® 5250 has to be handled carefully, because it contains acidic functional groups. Contact with parts of the body and clothes should be avoided. The information of the safety sheet must be taken into consideration.



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Product Information

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

The information and technical consultation given by SurA Chemicals GmbH, verbally or written, is based on the company's best knowledge and shall only be considered as non-binding advice, also in respect of the protected rights of third parties. The company's technical consultation does not release the customer from own examination concerning the suitability and usability of the company's product. The manufacturer's liability extends solely to the value of the products supplied by SurA Chemicals GmbH and applied by the customer.

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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