Technical datasheet

# Soudaguard UBC

## Product description

Soudaguard UBC is a water based underbody coating based on Synthetic Polymers that forms a protective coating after drying.

## Properties

- Excellent resistance against rust, oil, grease, water, salt, etc...
- Coating against heat and noise on the bottom side of the vehicle
- Forms a seamless membrane
- Stays elastic after curing
- Very durable
- Very good adhesion on many materials
- Very low VOC emission

## Applications

- Forms a protective film against rust, oil, grease, water and salt.
- Forms a protective coating againts stone-chipping.
- For the protection of wheel arches and bodywork.
- Forms a protective coating against heat and sound vibrations.

## Technical data

| | | |
|---|---|---|
| Base | | Synthetic dispersion |
| Consistency | | Paste |
| Curing system | | Physical drying |
| Skin formation | 23±2°C - 50%±5% R. H. | ca. 60 minutes |
| Drying time | 23±2°C - 50%±5% R. H. | ca. 24 - 48 hours (for ± 1 mm wet layer thickness) |
| Density | | ca. 1.15 g/ml |
| Viscosity | | 108.000 mPa.s → 131.000 mPa.s (Brookfield) |
| Elongation at break | ISO 37 | > 500 % |
| Consumption | | ca. 0,8 kg/m² (1 mm layer thickness) |
| Application temperature | | 5°C → 45°C |
| Temperature resistance | | -20°C → +80°C |

*Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.*

## Substrates

- Substrate condition
  Clean, free of dust and grease. Slightly moist or slightly dusty substrates are no problem.
- Substrate preparation
  No pretreatment required. However, the need for a pretreatment with a specific primer or activator should be evaluated because of the large amount of possible substrate materials.



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- Substrate types
  Soudaguard UBC has a good adhesion to following substrates: Many porous and non-porous substrates, metals, aluminium, bitumen. Soudaguard UBC has no good adhesion or is not suitable for glass, PE, PP, PTFE (Teflon®). We recommend a preliminary adhesion and compatibility test on every surface.

## Application method

- Application method
  It is strongly recommended that Soudaguard UBC is brought to room temperature before use, otherwise its processing properties may be adversely affected. Stir well before use. Do not dilute with water or solvents. Soudaguard UBC is applied directly from the packaging onto the surface using airless or air-assisted spray equipment. The choice of spraying equipment, pressure, gun and spray tip depends on the application. Contact Soudal for further customized information. The use of masking tape is recommended. However, the tape should be removed shortly after the application of Soudaguard UBC, before curing. It is recommended for optimal coverage to spray from a 20 - 30 cm distance from the surface. A coverage of 1 to 2 mm wet layer thickness is recommended. A thicker layer might be needed for critical surface areas.
- Cleaning method
  Before curing, Soudaguard UBC can be removed with water from substrates and tools. Cured product can only be removed mechanically.
- Repair method
  Repair with the same material.

## Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

## Packaging/Logistics

Colour: dark blue (turns black after drying)
Packaging: Various sizes available. Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Protect against frost.

## Standards and certificates

- M2LAB-report R220200: Excellent adhesion to metal, according to ISO 2409.
- M2LAB-report R220200: Excellent resistance against chipping, according to SAE J400.
- M2LAB-report R220200: Excellent resistance to water immersion, according to ISO 2812-2.

## Environmental clausules

- Leed regulation: Soudaguard UBC conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

## Remarks

- It is important for the coating to be fully dried before exposure to freezing and wet environmental conditions. The exact drying time should be determined by project specific tests.
- Do not use in applications where continuous water immersion is possible.
- Soudaguard UBC should not be diluted.
- Limited UV-resistant.





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