**Waterbased Underbody Protection Black 1 l 400 ml**

**Product description**

Berner Waterbased Underbody Protection has long term anti-corrosion properties and is gravel resistant thanks to the elastic film it becomes when totally dry. It can be applied on clean cold-rolled steel, clean galvanised steel, sanded aluminium and also on sanded 2K primers. This makes the product ideal for protecting car front and rear spoilers, sills, wheel arches and side skirts. Also suitable for trucks and buses.

**Properties**

* Once it is dry the product can be painted with all standard 2K-acrylic, basecoat lacquers or water based lacquers.
* Can be sanded.
* Sound-deadening properties.
* Frost resistant (as liquid) up to -10 ºC.
* Fast drying.
* Haze free, not drip spray.
* Mixable with water based paints.
* Very good adhesion on a large range of substrates (as long as they are clean, dry and free of dust and grease).
* Cured product is resistant to water, salt spray, oil, soft bases and acids.

### Application

Shake well before use. The surfaces must be clean, dry and free of dust, rust and grease. Spray the coating with a hand- or pressure gun (air-pressure: 4 till 6 bar). Spraying distance: 20-30 cm. Product dries at room temperature. Warm circulating air at 30-35 °C can be used for faster drying or oven1 or IR1,2 drying (maximum temperature of +60 °C), let down the wet film for 10 minutes. Fresh product on equipment can be removed with water. Thinner: Water (max. 3%).

When the product is to be painted the recommended method of drying is warm circulating air (30 – 35 ºC) during 1 hour.

For thicker layers 12 – 24 h drying time at room temperature is recommended.

1 15 min to evaporate.

2  Minimum distance 50 cm, 60 ºC maximum temperature.

**Note**

Drying too fast may result in adhesion loss.

For 2K lacquers the use of primer is advised.

Follow the recommendations of paint manufacturers.

**Shelf life and storage**

Store the product between +10°C and +30°C.

The packaging must be protected from direct sunlight and heat. Shelf life: 12 months in the unopened original packaging.

Expiry date printed on the product as ED:DD.MM.YYYY

**Technical data (typical values):**

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| Base | Aqueous synthetic dispersions, fillers and additives | |
| Physical state | Liquid, viscous | |
| Curing/setting method | Emission of water, coalescence | |
| Solid content (DIN 53216) (3 hours at 120°C) | Aprox. 65% | |
| Viscosity (20°C) | Aprox. 60 Pa.s Brookfield (fresh) (Spindle 5/V½)  Aprox. 70 Pa.s Brookfield (after 24 hr + mixing) (Spindle 5/V½) | |
| Temperature resistance (cured) | -25 °C till +80 °C | |
| Usage | ± 0,5 kg/m2 ≈ ± 0,5 litre/m2 | |
| Dry after | ±20°C, 65% RH | Aprox. 90 minutes (±500 μm) |
| ±60°C, oven | Aprox. 17 minutes (±500 μm) |
| ±60°C, IR | Aprox. 13 minutes (±500 µm) |
| Overpaintable | After 1 hour, dry | |
| Completely cured after (20°C, 65% RH) | Aprox. 7 days (±500 μm) | |
| Salt spray test (DIN 50021) | Up to 240 hours, Ri 0 at 350 μ dry layer | |
| Up to 480 hours, Ri 0 at 350 μ dry + paint | |
| Gravel test (SAE-J400 method) | 7A – 7B at 350 μ dry layer thickness | |
| Bending test (DIN 53152, +70°C) | No cracks, no loss of adhesion | |
| Bending test (DIN 53152, -30°C) | No cracks, no loss of adhesion | |
| Adhesion test (DIN 53151) | Gt 0 with 2C acrylic, base coat & water based systems | |
| Colour | Black | |
| Density (20°C), DIN 51757 | 1,05 g/ml | |

**Safety**

Please follow notes in the applicable Safety Data Sheet. Safety Data Sheet is available on the Berner Webshop.

**Liability**

The information contained in the technical data sheet is the result of our findings, user-specific experience and expectations. As the operational conditions and fields of application respecting the products vary greatly, we can only give general processing instructions and recommendations by means of these technical data sheets. We provide these instructions and this information to the best of our knowledge and without binding effect, excluding any liability and without any warranty as regards correctness and completeness. The technical data sheets do not represent warranted characteristics, do not involve any ancillary obligation and are of an only facultative nature. Use of these data sheets does not release customers and respective downstream users from performing their own tests and trials concerning the suitability of the products for the intended processes and purposes, and from observing any industrial property rights of third parties.

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