

TECHNICAL INFORMATION

Preparation date: 23.08.2024



Revision date: 09.01.2025r.

Page 1 of 4

Product name: stone chip protection + sprayable sealant APP U300 2 in 1. APP No: 050113 and 050114.

Synthetic rubber-based spray compound designed to protect bodywork against stone impacts and for sealing weld seams by restoring the factory-like texture. Protects the car body sheet against the effects of brine and low-concentration acids and bases. Has soundproofing properties.

Salt solution resistance test: 720 hours.

Packaging. Typical 1.0 litre disposable container with 42x3 mm thread.

Product and accessories. U300 2 in 1 – ready-to-use product after mixing.

Basic ingredients. Synthetic rubber, resins, fillers, additives and solvents.

Colour.

- Black – APP no. 050113.
- Grey – APP no. 050114.

Properties

Yield. 0.7 kg/m² = 0.7 litres/m² for 700 µm wet film.

Note!

In practice, the yield depends on factors such as the shape of the object, the roughness of the substrate, the application method and the working conditions.

Consistency. Liquid with good resistance to slumping.

Density at +20°C. 1.04 g/cm³ – measured in accordance with DIN 51757.

Viscosity at +20°C. Approx. 48 Pa.s Brookfield (spindle 5/V ½).

Solid content: Black 49.2% – measurement according to DIN 53216 (3h/120°C).
Black 48.5% – measurement according to DIN 53216 (3h/120°C).

Thermal tolerance. from -30°C to +80°C for the dry layer.

Chemical resistance. Once dry, the product is resistant to water, salt spray, oil, acids and alkalis in low concentrations.

Resistance to gravel (using gravel meter). 6A - 6B at a dry film thickness of 350 µm using SAE-J400 method.

Salt spray test in accordance with DIN 50021.

- Up to 480 hours Ri 0 with a product dry film thickness of 350 µm.
- Up to 720 hours Ri 0 at a product dry film thickness of 350 µm with topcoat.

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Preparation date: 23.08.2024



Revision date: 09.01.2025r.

Page 2 of 4

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Bending test according to DIN 53152.

- At +70°C no cracking occurs, no loss of adhesion.
- At -30°C fine cracks occur, no loss of adhesion.

Adhesion test in accordance with DIN 53151.

Gt 0 with two-component acrylic varnish, basecoat and water-based systems.

Application

- For protection of painted car body surfaces against chipping resulting from stone impacts.
- For protecting spoilers, cab corners, wheel arches, mudguards and chassis from damage by stone chips sand and salt.
- For spray sealing of weld seams.
- For restoring an optically close to the original factory spray seal texture.
- For use as soundproofing compound for wheel arches and chassis of buses and passenger cars.

Advantages

- Salt solution resistance test according to DIN 50021: 720 hours for the varnished product.
- Once mixed, the product is ready for use.
- When dry, it has a classic pebble dash texture.
- This product can be used as a pebble dash (UBS) and as a spray sealant.
- The resulting surface texture hardly changes (does not spread) during drying.
- Very good adhesion to many substrates.
- The protective coating should be repainted with any type of topcoat.

Substrate

Suitable substrates.

Raw and primed sheet metal.
Coated surfaces with primers and topcoats. Plastic elements

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TECHNICAL INFORMATION

Preparation date: 23.08.2024



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Page 3 of 4

Product name: stone chip protection + sprayable sealant APP U300 2 in 1. APP No: 050113 and 050114.

Substrate preparation



Remove corrosion spots from raw steel body sheets.
Sand the steel sheet with P80-P150 abrasive paper.
Matt down aluminium and plastic elements with an abrasive fleece.
Dry sand acrylic and epoxy primers with P360-P500.
Before spraying, the surface to be protected must be cleaned of dust and degreased with APP W900 remover or APP WB910.
Note! Remove bitumen-based coatings.

Applications

Mixing ratio.

U300 2 in 1 is supplied in the ready-to-spray form.

Application.



Mix the ingredients in the container well by shaking, tear off the cap protection and attach the container to the spray gun. Apply with a spray gun for applying under pressure:

- as a pebble dash texture (UBS): 2.0 to 4.0 bar from a distance of approximately 30 cm,
- as a sealing compound: 1.5 to 2.5 bar at a distance of 1-2 cm.

Number of coats: 1-2 × 1.

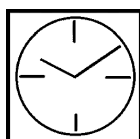
Dry film thickness:

- 100-250 µm for primed sheets,
- 200-400 µm for raw sheets,
- up to 700 µm in areas particularly exposed to sandblasting and stone-chipping, e.g.: wheel arch interiors.

Note!

For best results, use the NTools RA/1 dense compound spray gun with adjustable outlet nozzle No. 110101 or the NTools BS2 pneumatic maintenance gun with pressure tank No. 110105N.

Drying



20°C

At +20°C and 65% RH and a wet film thickness of 700 µm:

- touch dry: 40 to 50 minutes,
- completely dried: From 120 to 140 minutes.

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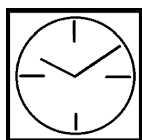


Revision date: 09.01.2025r.

Page 4 of 4

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Drying



60°C

At +60°C and 65% RH and a wet film thickness of 700 µm:

- completely dried From 40 to 50 minutes.

The coating achieves full mechanical resistance after 24 hours.

Note!

Applying a wet layer thicker than 1 mm will result in a significantly longer drying time.

Coverage.

After 60-90 minutes, organic basecoats and water-based, two-component topcoats used for car body repairs can be applied.

Note!

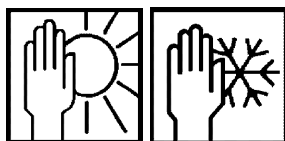
It is recommended to apply a thin first coat of the product.

After complete drying, grind with an abrasive needled cloth; to improve adhesion of 2K products, it is recommended to use APP Kunststoff Primer.

Equipment cleaning.

White spirit, solvent paraffin, xylene, toluene, white technical spirit.

Storage



Store in closed original packaging in a dry and well-ventilated room. Protect from freezing.

OHS regulations



For professional use only.

See text on product labels or in the product MSDS.

Comply with the health and safety regulations in force in the country concerned.

VOC

VOC limit g/l in the ready-to-use product.

840 g/l for U300 2 in 1

Maximum VOC content g/l in the ready-to-use product.

528.5 g/l for U300 2 in 1 black

530 g/l for U300 2 in 1 grey

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