

DINITROL 449

Stonechip- and Corrosion protection

PRODUCT

DINITROL 449 is an environmentally friendly bitumen based underbody and stonechip coating with good corrosion protection and sound deadening properties. After curing DINITROL 449 has a very durable tough and elastic film, which results in a very good stonechip resistance. The product is not overpaintable.

APPLICATIONS

DINITROL 449 is applied as anti-corrosion, underbody and stone chip protection on e.g. chassis, wheel-housings and side-skirts of cars, trucks and coaches in:

- Automotive industry;
- Bus & coach construction;
- Trailer construction;
- Garages, workshops;
- Body repair shops;
- Metal industry;
- Ship constructions.

FEATURES

- Waterbased, environmental friendly;
- No VOC;
- Good corrosion resistance;
- Very good stone chip resistance;
- Durable tough elastic film;
- Colour changing from blue to black when drying;
- Easy to verify when product is dry
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ADHESION

In general the product adheres very well (without special pre-treatment) on a wide range of clean, dry, dust- and grease free substrates. The product can be applied in a two layer application together with DINITROL 977. In that case, the surface can be lightly corroded or moist but loose corrosion shall be removed before application. It is always advisable to perform an adhesion test on the materials involved.

Die in diesem Merkblatt gemachten Angaben sind das Ergebnis sorgfältiger Untersuchungen. Soweit sie sich auf die Anwendung beziehen, sind sie als Empfehlung zu betrachten, die dem Erfahrungsstand entsprechen. Wegen der Vielseitigkeit der Anwendungs- und Arbeitsweisen können wir jedoch eine Verbindlichkeit nicht übernehmen. Es wird daher ein vertragliches Rechtsverhältnis nicht begründet, und es entstehen aus eventuellen Kaufverträgen keine Nebenverpflichtungen.

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the use of our products.

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METHOD OF USE

Shake before use or stir the product thoroughly. The surfaces to be treated must be clean, dry, rust-, dust- and grease free. DINITROL 449 can be applied with light airless spray equipment or by means of an air-mix pistol with an air-pressure of 2-5 bar. In this case, the surface may be slightly rusty or moist but loose rust must be removed before application. Protect the stone impact protection on the areas to be protected with a suction tube and pressure cup gun (with a wide intake manifold) at 2 - 4 bar air pressure. Optimum spraying distance is about 20-30 cm. Depending on the application the product can be thinned with water. The product can be sprayed haze free and does not drip. Contaminated surfaces and filthy equipment can be simply cleaned in "fresh" condition with water. In order to achieve a closed film, a multi-layer, fan-like wet film of 2 to 3 mm thickness is injected. Drying is carried out at room temperature (faster drying with heating up to + 40 ° C possible - oven or IR).

TECHNICAL DATA

Product	DINITROL 449
Basic material	Aqueous synthetic dispersion, bitumen, water, fillers, emulsifying agents and additives
Consistency	Viscous
Curing/setting method	Emission of water/coalescence
Specific density (20°C), DIN 51757	Ca. 1.21 kg/litre
Cleaning with	Water (fresh), Mechanical, solvent (cured)
Thinner	Water
Solid content (DIN 53216) (3 hours at 120°C)	Ca. 70%
Viscosity (20°C) (Brookfield RVT, Sp 5, V=0.5)	Ca. 130 Pa.s
Temperature resistance (cured)	-30°C till + ca.120°C
Resistant (20°C), cured	Water, salt spray, oil, soft bases & acids
Usage	± 0.6 kg/m ² (500 µm wet layer)
Dry to touch (20°C, 65% RH)	Ca. 90 minutes (±500 µm wet layer)
Completely dried (20°C, 65% RH)	Ca. 7 days (±500 µm wet layer)
Salt spray test (DIN 50021)	> 500 hours (at 400 µm dry layer)
Stonechip (internal) test, 2 bar, 2 mm grit	Ca. 6 minutes (at 400 µm dry layer)
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	On various metal surfaces
Colours (standard)	Black
Packaging	On request

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STORAGE STABILITY

The product is frost sensitive and may not be stored under +0°C and above +35°C. The packaging must be protected from direct sunlight and heat. Cool and moisture free stored the product is tenable for a maximum of 1 year in the unopened original packaging.

SAFETY PRECAUTIONS

Please see our latest EC safety data sheet for details.

TRANSPORT CLASSIFICATION

Please see our latest EC safety data sheet for details.

For all relevant safety advices please read the material safety data sheet or the packaging label.

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