Technical Datasheet
Issued 08.05.2014
FB 5-21 F03 Rev. 1

DINITROL 449

Stonechip- and Corrosion protection

Corrosion Protection Corrosion Protection

Properties:

DINITROL 449 is an environmentally friendly Stonechip- and Corrosion prevention product with saound damping properties. DINITROL 449 is after drying highly flexible and over paintable with all common 2 K acrylic paints, resin and basic lacquers and water borne paints. The product protects from stonechip damages and all different climate conditions.

Applications:

DINITROL 449 us used for touch up of manufacturer applied coatings, treatment of used vehicles and repair of rocker panels, front and rear parts, wings and underbodies. DINITROL 449 is also applied in wheel arches for sound damping properties. Used in:

Car manufacturing, Bodyshops, Workshops, Metal working industries, Bus building, RV vehicles, Bus and Truck industries.

Chemistry:

Water borne bitumen emulsion and acrylic dispersion, fillers and additives.

Painting:

After completely dried, DINITROL 449 can be overpainted with all common 2 K acrylic paints, resin and basic lacquers and water borne paints. The adhesion of these paints has been tested acoording to ISO 2409 after 24 h with result Gt 0.
As there are several different paints available on the market, it is recommended to make compatibility test.

Method of use:

Shake before use. The surface to be applied has to be firm, clean, dry and free from corrosion and grease. Apply the Stonechip protection on the surface with a pressure gun, 2-4 bar is normally optimal. Recommended spraying distance is 20-30 cm. To reach a closed film, it is recommended to apply a wet film of about 2-3 mm thickness. Drying is normally done at RT but it can be speeded up by drying at maximum 40°C. The product is applied with very low overspray. Product can be remioved with warm water before drying and with solvents when dried.

Storing:

The product is frost sensitive and shall be stored at temperatures 10-30°C. Protect the packagings from direct sun light and heat. Store the product dry and in the recommended temperature range and the product has a shelf life of 12 months..

DINOL GmbH
Pyrmonter Str. 76
D-32676 Lügde
Telefon:
+49 (0) 52 81 / 9 82 98-0
Telefax:
+49 (0) 52 81 / 9 82 98-60
E-Mail:
service@dinol.com

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This product is developed as part of a program, which aims at developing more environmentally friendly products. This program is made possible with the help of the "OP Zuid" funding program (European Economical Stimulating Program).

Technical data:

Appearance:	Visual	Black viscous/thixotropic liquid	
Colour:	Visual	Black when dried, blue in wet state	
Viskosity (20°C):	Brookfield (new): Brookfield (After 24 h + agitation):	ca. 160 ca. 200	Pas (Spindel 5 / V½) Pas (Spindel 5 / V½)
Density (20°C):	DIN 51757	ca. 1,28 KG/Liter	
Solid content:	DIN 53216 (3 h @ 120°C)	ca. 74 %	
pH:		ca. 6	
Drying time:	Bei ± 40°C (Ofen)	ca. 90 Minuten (± 500 µm)	
Completely cured in:	Bei ± 20°C, 65% RV	ca. 7 Tagen (± 500 µm)	
Overpaintable: (±20°C, 65% RV)	2K-acryl System: Basecoat System: Wasserbasiertes System:	When dried	
Chemical resistance:	After curing	Water, oil, light acids and alkali	
Temperature resistance:	After curing	- 25°C to+ 120°C	
Consumptiion:	Film thickness ± 500 µm nass	± 0,7 Kg/m^2 ± 0,5 Liter/m^2	
Removal:	Fresh material:	Warm water	
	Cured material:	Solvent mechanical	
Salt spray test:	DIN 50021	> 500 h (at 400 µm film thickness)	
Stonechip test:	SAE J400	2 bar, ca. 7 Min. at 400 µm film thickness	
Bending test:	DIN 53152 (+70°C): DIN 53152 (-25°C):	No cracks or loss of adhesion No cracks or loss of adhesion	
Adhesion of paint:	DIN 53151: DIN 53151: DIN 53151:	Gt 0 with 2K-acryl Systems Gt 0 with Basecoat Systems Gt 0 with Water borne Systems	

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

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