

NOVOL
for Classic Cars

Technical Data Sheet

POLYCOAT PROTECT

Anti-corrosion Topcoat for Chassis Protection

PROPERTIES

- Designed and dedicated for the refinishing of classic cars
- High yield
- Very good anti-corrosion properties
- High resistance to weather and chemicals
- Good chemical resistance
- Very good mechanical resistance



RELATED PRODUCTS

POLYCOAT PROTECT
HARDENER

Anti-corrosion topcoat hardener

THINNER

Acrylic and polyurethane
thinner

DESCRIPTION

A polyurethane anti-corrosion topcoat with a black, satin finish. The product is designed for protective undercoating of chassis and suspension components. The high thixotropy helps in the application in confined areas of the chassis and on the complex shapes of suspension parts.

The POLYCOAT PROTECT boasts high adhesion and anti-corrosive and elasticising additives.

CHASSIS SUBSTRATES	
Steel	Pretreat as specified in the EPOXY PRIMER TDS. Coat with the EPOXY PRIMER.
Aluminium	Pretreat as specified in the EPOXY PRIMER TDS. Coat with the EPOXY PRIMER.
EPOXY PRIMER	Apply once the epoxy primer has cured for 24h at 20°C. Dry sand with claret abrasive needled cloth or P220 to P320 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
HYBRID EPOXY PRIMER – ANTI-CORROSION	The chemical activity life is up to 7 days at 20°C without matting. The recommended time to recoating is 24h at 20°C If necessary, dry sand with a red abrasive needled cloth or P220 - P320 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
SUSPENSION SUBSTRATES	
Steel	<p>ABRASIVE BLASTING: Clean to Sa 2^{1/2}. Once processed, the surface should be dry and free of oils, grease, dust, loose old coatings, milling scale, rust and foreign bodies. The surface should exhibit a bare metallic gloss.</p> <p>POWER CLEANING: Use a carbon brush or sand by hand with P80 to P120 grit paper.</p> <p>Blow off all dust from the clean steel surface and degrease twice with the SILICONE REMOVER and blow off all dust again.</p>
Aluminium	<p>POWER CLEANING: Use a carbon brush or sand by hand with the following paper grit size: Rough: P80 to P180 Finish: P220 to P240</p> <p>Blow off all dust from the clean aluminium surface and degrease twice with the SILICONE REMOVER and blow off all dust again.</p>

MIXING RATIO			
		Volume ratio	Weight ratio
	POLYCOAT PROTECT	5	100
	HARDENER	1	14
	THINNER	15%	9
<p>Apply the thinner at the ratio calculated for Component A (POLYCOAT PROTECT).</p> <p>It is very important to precisely dose the specific components to obtain a topcoat with suitable performance parameters. It is good practice to mix the topcoat with the hardener, followed by the addition of the thinner, and then mix all three components again. Having finished dosing, seal the topcoat, hardener, and thinner containers tight.</p>			
SPRAY VISCOSITY			
	DIN 4/20°C	28 - 36 s	
VOC CONTENT			
VOC II/B/d limit*		420 g/l	
Actual VOC for mixing ratio 5:1+15%		415 g/l	
* For a ready for use (RFU) mixture acc. to EU Directive 2004/42/CE.			
APPLICATION CONDITIONS			
<p>The surface to be coated must be dry. The topcoat, coated substrate and ambient temperatures must not be below +15°C; the relative humidity must not exceed 80%. The temperature of the surface to be coated must exceed the dew point by at least 3°C.</p>			
APPLICATION			
 Follow the tool manufacturer's guidelines	Spray nozzle	1.6 - 1.8	
	Input pressure	1.5 - 2.2 bar	

 <p>The actual yield depends on the surface shape, roughness and application parameters.</p>	Number of layers	1 - 3
	Single dry layer thickness	40 - 80 µm
	Ready for use mixture yield for 100 µm dry film thickness	5.4 m ² /l
	Mixture life at 20°C	2 h
	Flash-off time between layers	10 - 15 min
CURING TIMES		
	20°C	60°C
Dust-free	30 min	10 min
Tack-free	5 h	30 min
Operating hardness	24 h	60 min
Final hardness	7 days	60 min + 1 day/20 °C
The curing times apply to the temperature of the chassis and individual suspension parts.		
IR DRYING		
		30 - 45 min
<p>A short-wave IR lamp is recommended. Follow the recommendations of the equipment manufacturer! Start IR heating after at least 20 min after applying the last layer. The bottom layer of the epoxy primer should be cured thoroughly by IR heating, once hardened.</p>		
COLOUR		
Black or DB164.		
GLOSS LEVEL		
<p>Satin. The gloss level depends on the application method, the thickness of applied coats and the colour.</p>		

EQUIPMENT CLEANING

THINNER acrylic and polyurethane thinner or NC solvent.

STORAGE CONDITIONS

Store in a cool, dry room, away from sources of fire and heat, at temperatures between 5°C and 25°C. Avoid direct exposure to sunlight.

SHELF LIFE

POLYCOAT PROTECT	24 months/20°C
POLYCOAT PROTECT HARDENER	12 months/20°C
THINNER	24 months/20°C

SAFETY

See the Safety Data Sheet.

OTHER INFORMATION

The effectiveness of our systems results from research in the laboratory and many years of experience. The data contained here meets the current knowledge about our products and their application potential.

We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to perform a test application of the product due to its potential for varying reactions with different materials.

We cannot be held liable for defects where the final results were affected by factors beyond our control.

This TDS supersedes all its previous issues.

Registration number: 000024104



RFU	POLYCOAT PROTECT	POLYCOAT PROTECT HARDENER	THINNER 15%
0.10 L	106 g	15 g	10 g
0.15 L	159 g	23 g	15 g
0.20 L	212 g	30 g	19 g
0.25 L	265 g	38 g	24 g
0.30 L	318 g	46 g	29 g
0.40 L	424 g	61 g	39 g
0.50 L	530 g	76 g	49 g
0.75 L	794 g	114 g	73 g
1.00 L	1059 g	153 g	98 g
2.00 L	2118 g	306 g	196 g