



## Technical Data Sheet

# COBRA UNDERBODY SHIELD

## ANTI-CORROSION UNDERBODY COATING

### PROPERTIES

The COBRA UNDERBODY SHIELD is an two-component anti-corrosion epoxy coating for the preservation of vehicle chassis and suspension components. This product can be applied to rough surfaces (e.g. after abrasive blasting) and other surfaces that might not have been properly pretreated for the coating process. Once applied by spray, the product forms a thick, elastic coating that is very resistant to mechanical damage, including by gravel (impact by stone chips, etc.). The product has a very high content of active corrosion inhibitors and excellent anti-corrosion barrier performance. It does not require overcoating with any top/finish coats. This product is available in two colours, BLACK and GREY ALU (this colour option features aluminium grains).

### SUBSTRATES

Steel	<p>Clean the surface with one of the methods below:</p> <p><b>Abrasive blasting</b> (e.g. blasting with a sand grit) down to Sa 2, which means that the surface should become dull and without any visible rust or old coatings, while slight discolouration is permitted.</p> <p>or</p> <p><b>Power sanding</b> (e.g. using a sander with P80–P120 grit paper), sanding by hand (e.g. using a wire brush or P80–P120 grit paper) down to Sa 3, which means that the surface should become uniform in appearance, revealing clean metal only, without any loose rust or old coatings.</p> <p>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>Carefully blow off dust and degrease the surface after this process.</p>
Galvanised steel	<p>The surface must achieve sufficient roughness; light-duty abrasive blasting is recommended using non-metallic grit beads, like glass or ceramic microbeads.</p> <p>Alternatively, sand down using P240–P320 grit paper or use an abrasive cloth: #320 green (General Purpose) or #360 red (Very Fine).</p> <p>Carefully blow off dust and degrease the surface after this process.</p>
OEM E-coated parts	<p>Degrease the surface and follow by polishing dull using a NOVOL General Purpose abrasive cloth, and degrease again.</p>
Old, cured two-component paint coats*	<p>Degrease and dry sand with P180–P220 grit paper. Blow off dust and degrease.</p>

\*Do a solvent resistance test before coating. This test involves wiping a small part of the surface with an aggressive solvent (like nitrocellulose). If the wiped coating becomes soft or sticky, it is a one-component thermoplastic coating.

**CAUTION:**  
The COBRA UNDERBODY SHIELD is not recommended on one-component coatings (like body protection products or bitumen compounds).

### RELATED PRODUCTS

COBRA UNDERBODY SHIELD HARDENER	COBRA UNDERBODY SHIELD HARDENER
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### VOC CONTENT


VOC II/B/c limit*	540 g/l
Actual VOC	395 g/l

\* For a ready-for-use mixture acc. to EU Directive 2004/42/CE



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MIXING RATIO			
		Volume ratio	Weight ratio
	COBRA UNDERBODY SHIELD	3	100
	COBRA UNDERBODY SHIELD HARDENER	1	20
APPLICATION CONDITIONS			
It is recommended to apply the product at temperature of 10°C to 30°C and a humidity of 80% or lower.			
APPLICATION			
Apply this product using a traditional gravity spray gun with a 2.5 mm nozzle or a solvent-resistant paint brush.			
Recommended spray gun application pressure	Follow the tool manufacturer's guidelines		
Recommended number of layers	2–3		
Flash-off time between layers (at 20°C)	10 min		
Recommended final coating thickness	150–200 µm		
DRYING TIME			
Tack-free	4 h/20°C		
Fully dry	12 h/20°C		
Final hardness	7 days/20°C		
COATABILITY			
<p>The COBRA UNDERBODY SHIELD can be overcoated after 12 h with STP Novol and Cobra WAX &amp; ML compounds, as well as basecoats, clearcoats, or enamel topcoats.</p> <p>The maximum time to recoat without matting is 48 h. If the next coat is to be applied after 48 hours, first matt the layer of COBRA UNDERBODY SHIELD use an abrasive cloth: #320 green (General Purpose) or #360 red (Very Fine).</p>			
UV RESISTANCE			
<p>This product has sufficient UV resistance to protect chassis and components not directly exposed to UV radiation from the sunlight. For surfaces directly exposed to sunlight, it is best to preserve the applied coating system using a UV-resistant topcoat.</p>			
ANTI-CORROSION PROTECTION PERFORMANCE			
<p>At least 1000 h, Ri 0 at 150 µm DFT (PN-EN ISO 9227 / PN-EN ISO 4628).</p> <p>This means that a 150 µm thick coating exposed in a salt spray chamber test for a minimum of 1000 h as specified in PN-EN ISO 9227 was rated at Ri 0 according to PN-EN ISO 4628, revealing no evidence of corrosion.</p>			
COLOURS			
BLACK, GREY ALU.			



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EQUIPMENT CLEANING	
THIN 860 epoxy thinner or NC solvent.	
STORAGE CONDITIONS	
Store in a cool, dry room, away from sources of fire and heat. Avoid direct exposure to sunlight.	
SHELF LIFE	
COBRA UNDERBODY SHIELD	24 months/20°C
COBRA UNDERBODY SHIELD HARDENER	24 months/20°C
SAFETY	
See the Safety Data Sheet.	
OTHER INFORMATION	
Index number: 000024104  The effectiveness of our systems results from research in the laboratory and many years of experience. The data contained in this document reflects the current knowledge about our products and their application potential. We can ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship principles. 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 if the final results are affected by factors beyond our control.	