








## Technical Data Sheet

# COBRA

## Bedliner

PROPERTIES	
<p>COBRA forms a fine-grained scratch-resistant coating. Protects against petrol, oil, water and salt. The product also has sound-proof and sound-dampening properties. It is UV resistant. Based on synthetic resins, it does not contain asphalt or bitumen compounds, and can be coated with any acrylic paints.</p>	
USE	
<p>Can be applied on chassis, body panels, boot interiors, SUV body floors, tube guards, wheel arches, off-road vehicle load bodies, and truck and bus floors.</p>	
SUBSTRATES	
Two-component acrylic primers	Dry sand, finish level with P240 - P320, blow off the dust and degrease.
Polyester putties	Dry sand, finish level with P240 - P320, blow off the dust and degrease.
Two-component epoxy primers	No sanding for up to 12 hours, sand with P320 afterwards, blow off the dust and degrease.
Steel	Apply on the epoxy, acrylic primers or the existing layer of the 2K coat when sanded down.
Stainless steel	Apply on the epoxy, acrylic primers or the existing layer of the 2K coat when sanded down.
Wash primers	Apply after drying.
Plastics	Degrease with PLUS 780, matt with an abrasive finishing pad, degrease again. Apply the PLUS 700 Adhesion Increasing Agent.
Polyester laminates	Degrease, dry sand with P280, blow off the dust and degrease again.
Do not apply on one-component products.	
VOC CONTENT	
VOC II/B/e limit*	840 g/l
Actual VOC (UBS gun)	460 g/l
Actual VOC (conventional gravity-fed spray gun)	530 g/l
* For ready to apply mixture acc. to EU Directive 2004/42/EC	

MIXING RATIO				
<b>UBS gun</b>				
Shake the container for approx. 1 min before use, add the Hardener, and shake for another 2 min.				
	4.0 mm nozzle for thick textured layers			
		Weight ratio	Volume ratio	
	COBRA Black / COBRA for Color	100	3	
	Hardener	26	1	
<b>Conventional gravity-fed spray gun</b>				
Shake the container for approx. 1 min before use, add the Hardener with THIN 850, and mix.				
	2.5 mm nozzle for moderately textured layers			
		Weight ratio	Volume ratio	
	COBRA Black / COBRA for Color	100	3	
	Hardener	26	1	
	THIN 850	0 - 4	0 - 5 %	
	1.4 - 1.8 mm nozzle for fine textured layers			
	Weight ratio	Volume ratio		
COBRA Black / COBRA for Color	100	3		
Hardener	26	1		
THIN 850	17 - 20	25 - 30 %		
Apply the thinner in the amount calculated for COBRA Black / COBRA for Color.				
APPLICATION CONDITIONS				
It is recommended to apply the product at over 15°C and humidity of 60% or lower.				
APPLICATION				
 <p><b>CAUTION:</b> Follow the equipment manufacturer's guidelines</p>		UBS gun	Conventional gravity fed spray gun	
	Nozzle	4.0 mm	2.5 mm	1.6 - 1.8 mm
	Pressure	2 - 4 bar	2 - 4 bar	2 bar
	Distance	20 - 40 cm	20 - 40 cm	10 - 15 cm
	Single dry layer thickness	200 - 250 µm	100 - 120 µm	70 µm
	The yield of the ready to use mixture for the given range of dry layer thickness	2 - 2.5 m <sup>2</sup> /l	4.5 m <sup>2</sup> /l	6 m <sup>2</sup> /l
	Number of layers	1 - 2		

	Mixture life at 20° C	1h		
	Flash-off time between layers at 20°C	20 - 25 min	15 min	10 min
<ul style="list-style-type: none"> <li>• Apply in one or two single coats.</li> <li>• The texture grain depends on the nozzle size and the thinning ratio.</li> <li>• The time to recoat for the UBS gun is 20 - 25 min and for the conventional gravity-fed gun is 10 - 15 min.</li> <li>• Do not apply on the exhaust system or the engine.</li> </ul>				
<b>IR DRYING</b>				
	Drying with IR lamps is not recommended.			
<b>PAINT CABIN DRYING</b>				
<ul style="list-style-type: none"> <li>• After the lapse of 2 hours from applying the last layer, hold COBRA at 40°C. Recommended holding time: 1 hour.</li> <li>• IMPORTANT! The holding process will only accelerate the first curing stage. For heavy duty use, it is recommended to wait 7 days after application before using the coating.</li> </ul>				
<b>CURING TIMES</b>				
Dust-free	45 - 60 min/ 20°C			
Tack-free	3 h/ 20°C			
Operating hardness	3 days/ 20°C			
Ending hardness	7 days/ 20°C			
<b>TOP COATING</b>				
<ul style="list-style-type: none"> <li>• COBRA is coatable with basecoats, clearcoats and direct topcoats.</li> <li>• Wait a minimum of 3 hours before coating. Mat down the topcoat after 24 hours after applying COBRA. Use a needle cloth or sand paper. Next, degrease with PLUS 780.</li> </ul>				
<b>COBRA ANTI-SLIP ADDITIVE</b>				
<ul style="list-style-type: none"> <li>• The COBRA Anti-Slip Additive is recommended for producing a surface texture with full anti-slip properties.</li> <li>• APPLICATION: Add the correct amount of the Anti-Slip Additive to COBRA, mix thoroughly for 1-2 minutes, add the hardener, and mix again for ca. 1 minute.</li> <li>• IMPORTANT! The obtained anti-slip properties will depend on the applied texture. Perform a test application beforehand. Wear safety glasses.</li> </ul>				

<b>COLOUR</b>	
<ul style="list-style-type: none"> <li>• Black</li> <li>• Pigmented version: Use 10% to 15% of Spectral 2K or Spectral Base 2.0 pigment pastes by weight (of Component A).</li> <li>• The maximum pigment content shall be limited to 15%. A higher content may reduce the strength of the coating.</li> <li>• <b>WARNING!</b> The trueness of the colour matching for COBRA for Color depends on the colour mixing system used. The final colour after adding the pigment(s) is usually lighter than the input colour selected with the colour mixing system's sample chip. Having added the pigment(s) and mixed the coating thoroughly, a visual test of the pigmented COBRA for Color is recommended, with a colour adjustment, if required, before the spray application. It is good practice to start adding the pigment in a minimum amount and to increase it gradually to adjust the colour or improve the hiding power.</li> </ul>	
<b>EQUIPMENT CLEANING</b>	
THIN 850 acrylic thinner or NC solvent	
<b>STORAGE CONDITIONS</b>	
Store in a cool dry room, away from sources of fire and heat. Avoid direct exposure to sunlight.	
<b>SHELF LIFE</b>	
COBRA Black / COBRA for Color	24 months/20°C
Hardener	18 months/20°C
THIN 850	24 months/20°C
<b>SAFETY</b>	
See the Safety Data Sheet.	
<b>OTHER INFORMATION</b>	
Registration number: 000024104.  The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein 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 potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control.	

COBRA Black							
COBRA Black				Hardener			
L		g		L		g	
0.3		383		0.1		100	
0.6		765		0.2		200	
1.0		1275		0.33		330	
2.0		2550		0,65		665	
3.0		3825		1		1000	
COBRA for Color							
COBRA for Color		Pigment		Hardener			
L	g	ml	g	L		g	
0.3	383	30 ÷ 45	33 ÷ 50	0.1		100	
0.6	765	60 ÷ 90	66 ÷ 100	0.2		200	
1.0	1275	100 ÷ 150	110 ÷ 165	0.33		330	
2.0	2550	200 ÷ 300	220 ÷ 330	0,65		665	
3.0	3825	300 ÷ 450	330 ÷ 500	1		1000	
COBRA Black with anti-slip additive							
COBRA Black		Anti-slip additive		Hardener			
L	g	ml	g	L		g	
0.3	383	50	80	0.1		100	
0.6	765	100	160	0.2		200	
1.0	1275	180	260	0.33		330	
2.0	2550	350	510	0,65		665	
3.0	3825	500	765	1		1000	
COBRA for Color with anti-slip additive							
COBRA for Color		Pigment		Anti-slip additive		Hardener	
L	g	ml	g	ml	g	L	g
0.3	383	30 ÷ 45	33 ÷ 50	50	80	0.1	100
0.6	765	60 ÷ 90	66 ÷ 100	100	160	0.2	200
1.0	1275	100 ÷ 150	110 ÷ 165	180	260	0.33	330
2.0	2550	200 ÷ 300	220 ÷ 330	350	510	0,65	665
3.0	3825	300 ÷ 450	330 ÷ 500	500	765	1	1000

COBRA Black with structural additive									
COBRA Black		Structural Additive		Hardener		Thin 850			
L	g	ml	g	L	g	ml	g		
0.3	383	30 ÷ 60	4 ÷ 8	0.10	100	55	49		
0.6	765	60 ÷ 120	8 ÷ 16	0.20	200	110	97		
1.0	1275	100 ÷ 200	13 ÷ 26	0.33	330	180	159		
2.0	2550	200 ÷ 400	26 ÷ 52	0,65	665	360	318		
3.0	3825	300 ÷ 600	39 ÷ 78	1.00	1000	540	477		
COBRA for Color with structural additive									
COBRA for Color		Pigment		Structural Additive		Hardener		Thin 850	
L	g	ml	g	ml	g	L	g	ml	g
0.3	383	30 ÷ 45	33 ÷ 50	30 ÷ 60	4 ÷ 8	0.10	100	55	49
0.6	765	60 ÷ 90	66 ÷ 100	60 ÷ 120	8 ÷ 16	0.20	200	110	97
1.0	1275	100 ÷ 150	110 ÷ 165	100 ÷ 200	13 ÷ 26	0.33	330	180	159
2.0	2550	200 ÷ 300	220 ÷ 330	200 ÷ 400	26 ÷ 52	0,65	665	360	318
3.0	3825	300 ÷ 450	330 ÷ 500	300 ÷ 600	39 ÷ 78	1.00	1000	540	477