








# Technical Data Sheet

# **COBRA SUPERIOR**

## Hybrid Protective Coating

PROPERTIES	
<p>COBRA SUPERIOR – hybrid protective coating with structural finish. Special composition of synthetic resin enables to achieve the most desired characteristic: very high mechanical durability without decreasing the elasticity, high final hardness and scratch resistant. Protects against petrol, oil, water and salt. The product has also sound-proof and sound-dampening properties. It is UV resistant.</p> <p>With COBRA SUPERIOR you can achieve different structures of final layer (from coarse-grained to fine-grained) depending on amount of thinner and nozzle size. Using COBRA Anti-Slip Additive will provide better non-slip characteristics on different surfaces (stairs, floors, boat decks ).</p> <p>COBRA SUPERIOR is available in two versions:                      COBRA SUPERIOR BLACK – black color.                      COBRA SUPERIOR for COLOR - use 10% to 15% of 2k acrylic or solventborne basecoat pigments.</p>	
USE	
<p>Can be applied on chassis, body panels, boot interiors, SUV body floors, tube guards, wheel arches, off-road vehicle load bodies, 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.
COBRA EPOXY	No sanding for up to 48 hours, sand with P320 afterwards, blow off the dust and degrease.
Steel	Apply on the COBRA EPOXY, acrylic primers or the existing layer of the 2K coat when sanded down.
Stainless steel	Apply on the COBRA EPOXY, acrylic primers or the existing layer of the 2K coat when sanded down.
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)	340 g/l
Actual VOC (conventional gravity-fed spray gun)	393 g/l
* For ready to apply mixture acc. to EU Directive 2004/42/EC	

<b>MIXING RATIO</b>			
<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		
		<b>Weight ratio</b>	<b>Volume ratio</b>
	COBRA SUPERIOR Black / COBRA SUPERIOR for Color	100	3
	COBRA SUPERIOR Hardener	35	1
<b>Conventional gravity-fed spray gun</b>			
Shake the container for approx. 1 min before use, add the COBRA SUPERIOR Hardener with THIN 850, and mix.			
	2.5 mm nozzle for moderately textured layers		
		<b>Weight ratio</b>	<b>Volume ratio</b>
	COBRA SUPERIOR Black / COBRA SUPERIOR for Color	100	3
	COBRA SUPERIOR Hardener	35	1
	THIN 850	0 ÷ 5	0 ÷ 5%
	1.4 - 1.8 mm nozzle for fine textured layers		
	<b>Weight ratio</b>	<b>Volume ratio</b>	
COBRA SUPERIOR Black / COBRA SUPERIOR for Color	100	3	
COBRA SUPERIOR Hardener	35	1	
THIN 850	10 ÷ 15	10 ÷ 15 %	
The amount of thinner is calculated per component A only, (COBRA SUPERIOR Black / COBRA SUPERIOR for Color)			
<b>APPLICATION CONDITIONS</b>			
It is recommended to apply the product at over 15°C and humidity of 80% 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	0.5 - 2 bar	0.5 - 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>				
IR DRYING				
	Drying with IR lamps is not recommended.			
PAINT CABIN DRYING				
<ul style="list-style-type: none"> <li>• After 1 h from applying last layer COBRA SUPERIOR can be cured at 40°C. Recommended curing time: 1 hour.</li> <li>• <b>IMPORTANT!</b> The Baking process will only accelerate the first curing stage. For heavy duty use, it is recommended to wait 4 days after application before using the coating.</li> </ul>				
CURING TIMES				
	20°C	40°C		
Dust-free	60 - 90 min	-		
Tack-free	100 min	30 min 40°C + 10 min 20°C		
Operating hardness	1 day	30 min 40°C + 60 min 20°C		
Ending hardness	4 days	30 min 40°C + 3 days 20°C		

**COBRA ANTI-SLIP ADDITIVE**

- The COBRA Anti-Slip Additive is recommended for producing a surface texture with full anti-slip properties.
- 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.
- IMPORTANT! The obtained anti-slip properties will depend on the applied texture. Perform a test application beforehand. Wear safety glasses.

**COLOR**

- Black
- For Color: use 10% to 15% (for Component A) of Spectral 2K or Spectral Base 2.0 pigments.

**EQUIPMENT CLEANING**

THIN 850 acrylic 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 SUPERIOR Black / COBRA SUPERIOR for Color	18 months/20°C
COBRA SUPERIOR Hardener	18 months/20°C
THIN 850	24 months/20°C

**SAFETY**

See the Safety Data Sheet.

**OTHER INFORMATION**

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 SUPERIOR Black							
COBRA SUPERIOR Black				COBRA SUPERIOR Hardener			
L		g		L		g	
0.3		300		0.10		105	
0.6		600		0.20		210	
1.0		1000		0.33		350	
2.0		2000		0.65		700	
3.0		3000		1.00		1050	
COBRA SUPERIOR for Color							
COBRA SUPERIOR for Color		Pigment		COBRA SUPERIOR Hardener			
L	g	ml	g	L		g	
0.3	300	30 - 45	33 - 50	0.10		105	
0.6	600	60 - 90	66 - 100	0.20		210	
1.0	1000	100 - 150	110 - 165	0.33		350	
2.0	2000	200 - 300	220 - 330	0,65		700	
3.0	3000	300 - 450	330 - 500	1.00		1050	
COBRA SUPERIOR Black with anti-slip additive							
COBRA SUPERIOR Black		Anti-slip additive		COBRA SUPERIOR Hardener			
L	g	ml	g	L		g	
0.3	300	50	80	0.10		105	
0.6	600	100	160	0.20		210	
1.0	1000	180	260	0.33		350	
2.0	2000	350	510	0.65		700	
3.0	3000	500	765	1.00		1050	
COBRA for Color with anti-slip additive							
COBRA SUPERIOR for Color		Pigment		Anti-slip additive		COBRA SUPERIOR Hardener	
L	g	ml	g	ml	g	L	g
0.3	300	30 - 45	33 - 50	50	80	0.10 105	
0.6	600	60 - 90	66 - 100	100	160	0.20 210	
1.0	1000	100 - 150	110 - 165	180	260	0.33 350	
2.0	2000	200 - 300	220 - 330	350	510	0,65 700	
3.0	3000	300 - 450	330 - 500	500	765	1.00 1050	