

**NOVOL**  
*for Classic Cars*

Technical Data Sheet

# **PREMIUM CSR CLEARCOAT**

Acrylic Clearcoat

## **PROPERTIES**

- Designed and dedicated for the refinishing of classic cars
- Crystal gloss and depth
- Innovative coating scratch resistance system (CSR)
- Reduced risk of runs
- Long pot life for the whole body coating
- Very high UV resistance
- High solids content



## **RELATED PRODUCTS**

**CLEARCOAT HARDENER**

Hardener for acrylic and polyurethane clearcoats

**THINNER**

Acrylic and polyurethane thinner

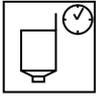
## **DESCRIPTION**

A superior-quality HS clearcoat with dedicated additives for CSR (coating scratch resistance).

The PREMIUM CSR CLEARCOAT boasts excellent flow and easy application under all processing conditions, irrespective of the painter's skill level.

It is excellent for multiple recoating, coloured SPECTRAL 2K (acrylic) + clearcoat PREMIUM-level coating, complete with sanding and wet on wet applications.

SUBSTRATES	
Base layers SPECTRAL BASE 2.0	<p>Add 10% of CLEARCOAT HARDENER per volume to the BASE 2.0 pigment mixture.</p> <p>Thoroughly mix the pigments with the hardener; follow by thinning with SOLV 885 at the specified ratio.</p> <p>The mixture of the pigments, the hardener and the thinner must be prepared directly before the basecoat application.</p> <p>Apply on a thoroughly dry, dust-free basecoat surface. Use dust-collecting painter's wipes to remove the dust from the basecoat colours.</p> <p>If required, sand lightly with P800 - P1000 grit paper.</p>
Spectral WAVE 2.0 basecoats	<p>Apply on a thoroughly dry, dust-free basecoat surface. Use dust-collecting painter's wipes to remove the dust from the basecoat colours.</p> <p>If required, sand lightly with P800 - P1000 grit paper.</p>
SPECTRAL 2K  PREMIUM coating (*)	<p><i>Option 1:</i> Cure the SPECTRAL 2K topcoat well (for 14 h/20°C or 45 min/60°C) and sand with P800 - P1000 grit paper. Thoroughly blow off all dust and degrease with the SILICONE REMOVER.</p> <p><i>Option 2:</i> Dust-free surface to be achieved at a minimum of 45 min/20°C after the application of the last layer of SPECTRAL 2K.</p>
PREMIUM CSR CLEARCOAT  PREMIUM coating (*)	<p><i>Option 1:</i> Cure the PREMIUM CSR CLEARCOAT well (for 14 h/20°C or 45 min/60°C) and sand down with P800 -P1000 grit paper. Thoroughly blow off all dust and degrease with the SILICONE REMOVER.</p> <p><i>Option 2:</i> Dust-free surface to be achieved in a minimum of 45 min/20°C after application of the last layer of the PREMIUM CSR CLEARCOAT.</p>
(*) See the PREMIUM-level coating specification in a separate reference	
The PREMIUM CSR CLEARCOAT is compatible with most commercial thinner and water-borne basecoats.	

MIXING RATIO			
		Volume ratio	Weight ratio [g]
	PREMIUM CSR CLEARCOAT	3	100
	CLEARCOAT HARDENER	1	35
	THINNER	10% - 20%	9 - 18
<p>It is very important to precisely dose the specific components to obtain a coat with suitable performance parameters. It is good practice to mix the clearcoat with the hardener, followed by addition of the thinner, and then mix all three components again.</p>			
SPRAY VISCOSITY			
	DIN 4/20°C	15 - 19 s	
APPLICATION CONDITIONS			
<p>It is recommended to apply the clearcoat at a temperature above 15°C and a humidity of no more than 80%.</p>			
APPLICATION			
		Spray nozzle	Spray tool input pressure
	Follow the spray gun manufacturer's guidelines.	1.2 - 1.4 mm	1.7 - 2.2 bar
		Number of layers	2 - 3
	The actual yield depends on the surface shape, roughness and application parameters.	Single full dry layer thickness	20 - 30 µm
		Ready for use mixture yield for 50 µm dry film thickness.	8.5 m <sup>2</sup> /l
		Mixture life at 20°C	1 h
		Flash-off time between layers	10 - 30 min
		Flash-off after the last layer	40 min minimum
	Use of the correct PPE is recommended!		

<b>CURING TIMES</b>		
Temperature	20°C	60°C
Dust-free	40 min	N/A
Tack-free	4 h	10 min
Handling hardness	14 h	45 min
Polishable hardness	14 h +48 h	45min +36 h/20°C
Final hardness	7 -10 days	45 min +3 - 5 days/20°C
The curing time is specified for the body workpiece temperature and not the air temperature! The curing times apply to a 40 - 60 µm thick total dry coat.		
<b>IR DRYING</b>		
	30 min In 3 layers.	
A short-wave IR lamp is recommended. Follow the recommendations of the equipment manufacturer. The bottom layers must be completely cured. Start IR heating after at least 40 minutes after applying the last layer.		
<b>VOC CONTENT</b>		
VOC II/B/e limit*	840 g/l	
Actual VOC for mixing ratio 3:1+10%	480 g/l	
Actual VOC for mixing ratio 3:1+20%	500 g/l	
* For a ready for use (RFU) mixture acc. to EU Directive 2004/42/CE.		
<b>EQUIPMENT CLEANING</b>		
THINNER acrylic and polyurethane thinner or NC solvent.		
<b>STORAGE CONDITIONS</b>		
Make sure that all coat component containers are sealed tight. Store in a dry and cool room, away from sources of fire and heat.		
<b>SHELF LIFE</b>		
PREMIUM CSR CLEARCOAT	24 months/20°C	
CLEARCOAT HARDENER	18 months/20°C	
THINNER	24 months/20°C	



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05/04/2023

<b>SAFETY</b>
See the Safety Data Sheet.
<b>OTHER INFORMATION</b>
<p>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.</p> <p>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.</p> <p>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.</p> <p>Registration number: 000024104</p>



RFU	PREMIUM CSR CLEARCOAT	CLEARCOAT HARDENER	THINNER 10%
0.10 L	70 g	24 g	6 g
0.15 L	105 g	37 g	9 g
0.20 L	140 g	49 g	12 g
0.25 L	175 g	61 g	16 g
0.30 L	210 g	73 g	19 g
0.40 L	280 g	98 g	25 g
0.50 L	350 g	122 g	31 g
0.75 L	525 g	183 g	47 g
1.00 L	700 g	244 g	62 g
2.00 L	1400 g	488 g	124 g



RFU	PREMIUM CSR CLEARCOAT	CLEARCOAT HARDENER	THINNER 20%
0.10 L	65 g	23 g	12 g
0.15 L	98 g	34 g	17 g
0.20 L	131 g	46 g	23 g
0.25 L	164 g	57 g	29 g
0.30 L	196 g	69 g	35 g
0.40 L	262 g	91 g	46 g
0.50 L	327 g	114 g	58 g
0.75 L	491 g	171 g	87 g
1.00 L	654 g	228 g	116 g
2.00 L	1308 g	456 g	232 g