

Technical data sheet

Spectral KLAR 555







Two-component clearcoat with increased scratch resistance (SR)



RELATED PRODUCTS

Spectral KLAR 555	SR clearcoat
Spectral H 6115	Hardener: Fast, Standard, Slow, Extra Slow
Spectral SOLV 855	Standard, fast, slow and extra slow acrylic thinners
Spectral PLAST 775	Elasticity increasing agent
Spectral S-D10	Matting additive
Spectral EXTRA 895	Fade out Thinner

PROPERTIES

- Increased scratch resistance (SR)
- HS technology – high solid content
 - Perfect levelling
 - High final hardness
- Increased chemical resistance

PODŁOŻA					
Spectral BASE 2.0 basecoat		Dried matt surface. Matt gently if necessary.			
Spectral WAVE 2.0 basecoat		Dried matt surface. Matt gently if necessary.			
Compatible with majority of solventborne and waterborne basecoats available on the market.					
MIXING RATIO					
	KLAR 555 H 6115 SOLV 855	HS version		MS version	
		Volume ratio	Weight ratio	Volume ratio	Weight ratio
		2	100	2	100
1	50	1	50		
-	-	0.2	8		
VISCOSITY					
	DIN 4/20 °C	17 ±19 s		15 ±17 s	
CONTENT OF VOLATILE ORGANIC COMPOUNDS					
VOC II/B/e limit *			840 g/l		
Actual VOC content			500 g/l		
* For ready to apply mixture compliant with Directive UE 2004/42/CE					
APPLICATION CONDITIONS					
Clearcoat should be applied at a temperature above 15°C and a humidity of no more than 80%.					
APPLICATION					
	Gravity fed spray gun	Nozzle	Pressure	Distance	
		1.2 ÷ 1.4 mm	Follow the recommendations of the equipment manufacturer		
	Number of layers	MS version		HS version	
		2 ÷ 3		1.5 ÷ 2	
	Single dry layer thickness	20 ÷ 25 µm		25 ÷ 30 µm	
	Theoretical coverage of ready-for-use mixture	8.5 m ² /l at 50 µm			
	Potlife at 20°C	H 6115 (standard)		H 6115 (fast)	
		2 hours		30 min.	
	Flash-off between layers	5 ±10 min			

DRYING TIMES				
	H 6115 standard			
	20 °C	60 °C		
Dust-free	35 min.	5 min.		
Tack-free	4 hours	10 min.		
Polishability (operating hardness)	14 hours	45 min.*		
Final hardness	7 days	45 min. + 1 day/20 °C		
<p>CAUTION: The curing times apply to the temperatures of the individual elements. The cabin temperature should be approximately 10°C higher. Drying the clearcoat with a fast hardener at an increased temperature can reduce the gloss. A coat cured at a temperature of 60 °C reaches a higher final hardness than a coat cured at 20 °C *polishability after cooling down the element.</p>				
RELATED PRODUCTS, DEPENDING ON THE PROCESSING TEMPERATURE				
	15 - 20°C	20 - 25°C	25 - 35°C	+ 35°C
Spectral H 6115	Fast	Standard	Slow	Extra Slow
Spectral SOLV 855	Fast	Standard	Slow	Extra Slow
DRYING WITH AN INFRARED RADIATOR				
	Distance		Follow the recommendations of the equipment manufacturer	
	Time depending on the type and power of the lamp		10 ÷ 25 min.	
<p>CAUTION: Use the radiator no sooner than 10 min. after applying the last layer.</p>				
Spectral PLAST 775 ELASTICITY INCREASING AGENT				
<p>To increase the paint coating's elasticity on plastic elements or to increase the coating's resistance to stone chipping (e.g. front strip, bonnet), add 10 + 30 % (vol.) of Spectral PLAST 775 per ready to apply mixture (Spectral KLAR 555* with Spectral H 6115). * the provided quantity of Spectral PLAST 775 does not apply to coats with a mat effect</p>				
Spectral S-D10 MATTING ADDITIVE				
<p>Depending on the desired gloss, the additive can be used in a quantity of 70 ÷ 100 % vol. per coat (without the hardener). Its use influences the mixture's viscosity, which should be taken into account when using a thinner. Add the hardener only in a quantity per Spectral KLAR 555.</p>				
	Volume ratio %	Gloss		
	70	semigloss		
	100	matt		
Spectral EXTRA 895 FADE OUT THINNER				
	<p>Spectra EXTRA 895 fade out thinner should be applied in thin layers, in 1-2 passes, to the contact area between old paint coating and the newly-applied coat.</p> <p>Two working methods may be used:</p> <p>Method I (recommended): Apply a thin layer of fade out thinner immediately after each layer of clear coat is applied.</p> <p>Method II: Apply a thin layer of fade out thinner immediately after the final layer of clear coat is applied.</p>			

EQUIPMENT CLEANING	
SOLV 855 acrylic thinner or NC solvent.	
STORAGE CONDITIONS	
Store in a dry and cool place, away from sources of fire and heat. Avoid direct exposure to sunlight.	
SHELF LIFE	
Spectral KLAR 555	24 months/20 °C
Spectral H 6115 Standard, Slow, Extra Slow	18 months/20 °C
Spectral H 6115 Fast	12 months/20 °C
Spectral SOLV 855	24 months/20 °C
Spectral PLAST 775	24 months/20 °C
Spectral S-D10	24 months/20 °C
Spectral EXTRA 895	24 months/20 °C
SAFETY	
See Safety Data Sheet.	
OTHER INFORMATIONS	
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 do 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.	

ADDITIONAL INFORMATION		
COMPONENT QUANTITY BY WEIGHT, HS VERSION		
CAUTION!		
In order to obtain a coat with appropriate parameters it is very important do exactly dose the individual components.		
Ready to use mixture amount	Spectral KLAR 555	Spectral H 6115
0.10 l	67 g	33 g
0.15 l	100 g	50 g
0.20 l	134 g	66 g
0.25 l	167 g	83 g
0.30 l	200 g	100 g
0.40 l	268 g	132 g
0.50 l	334 g	166 g
0.75 l	500 g	250 g
1.00 l	669 g	333 g
2.00 l	1338 g	666 g

COMPONENT QUANTITY BY WEIGHT, MS VERSION			
CAUTION!			
In order to obtain a coat with appropriate parameters it is very important do exactly dose the individual components.			
Ready to use mixture amount	Spectral KLAR 555	Spectral H 6115	Spectral SOLV 855
0.10 l	63 g	31 g	5.5 g
0.15 l	94 g	47 g	8 g
0.20 l	125 g	62 g	11 g
0.25 l	156 g	78 g	14 g
0.30 l	188 g	94 g	16 g
0.40 l	250 g	124 g	22 g
0.50 l	313 g	157 g	28 g
0.75 l	469 g	233 g	41 g
1.00 l	626 g	311 g	55 g
2.00 l	1252 g	622 g	110 g