

Technical data sheet

Spectral KLAR AQUA SHINE

Two-component clearcoat

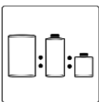
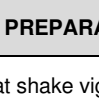





Spectral KLAR AQUA SHINE
Spectral AQUA SHINE HARDENER
SA-R10

RELATED PRODUCTS
Waterborne Clearcoat 2K
Waterborne Hardener
Reducer

PROPERTIES

- Very low emission levels
- Perfect for painting large surfaces
- Excellent overspray absorption
- Very good UV resistance
- Perfect appearance, gloss and durability of the coating


07/10/2024

SUBSTRATES				
		Spectral WAVE 2.0 basecoat		
Dried matt surface.				
MIXING RATIO				
	Spectral KLAR AQUA SHINE		Weight ratio	
	Spectral AQUA SHINE HARDENER		100	
	SA-R10 Reducer		50	
		20÷25 g		
RECIPE PREPARATION				
Clearcoat shake vigorously for 30 s, add hardener AQUA SHINE HARDENER and stir well approx. 1 min, then add SA-R10 Reducer and stir well again.				
In order to obtain a coat with appropriate parameters it is very important do precisely dose the individual components.				
In order to obtain correct spray viscosity it is very important do dose by weight the individual components.				
Apply the thinner in the amount calculated for the topcoat (comp. A).				
VISCOSITY				
		DIN 4/20°C		The product is thixotropic. Viscosity is not measurable.
VOC CONTENT				
VOC II/B/d limit*			420 g/l	
Actual VOC content			289 g/l	
* For ready to apply mixture compliant with Directive UE 2004/42/CE.				
APPLICATION CONDITIONS				
It is recommended to apply the clearcoat at a temperature above 23°C and humidity of no more than 60%.				
APPLICATION				
	Gravity fed spray gun	Nozzle	Pressure	Distance
		1,2÷1,3 mm	Follow the recommendations of the equipment manufacturer*	
	Number of layers	0,5 + 1		
	Single dry layer thickness	25÷30 µm		
	Theoretical coverage of ready-for-use mixture	7 m²/l at 50 µm		
	Potlife at 20°C	60 min		
	Flash-off between layers	10÷15 min (wait until the milky effect of the clearcoat disappears)		
	Flash-off before bake	5÷10 min		
CAUTION: * The best application is at a pressure approximately 20% higher than that recommended by the equipment manufacturer.				

A characteristic feature of waterborne coats is the milky appearance of the coating during the application process. This appearance disappears as the coating flashes off. When the coating has lost the milky appearance, it is ready for recoating or heating at 60°C.

It is recommended to visually inspect for the loss of the milky appearance by using an inspection torch with the work lights turned off in the spray booth.

CURING TIMES

	Spectral AQUA SHINE HARDENER	
	Dust-free	20 min/40°C
	Tack-free	20 min/40°C + 15 min/60°C*
	Polishability (operating hardness)	20 min/40°C + 30 min/60°C 12 hours/20°C
	Final hardness	20 min/40°C + 30 min/60°C + 3 days/20°C


CAUTION:

* Pre-dry at 40°C for 20 min before heating at 60°C.

The cabin temperature should be approximately 10°C higher. A coat cured at a temperature of 20 °C reaches a lower ending hardness than a coat cured at 60°C.

Total hardness does not mean achieving full chemical resistance of the lacquer.

IR DRYING

	Distance	Follow the recommendations of the equipment manufacturer
	Time depending on the type and power of the lamp	20 - 30 min.

CAUTION: Use the radiator no sooner than 20 min after applying the last layer (wait until the milky effect of the clearcoat disappears).

EQUIPMENT CLEANING

Pre-clean with water, clean thoroughly with a solvent (e.g. NC).

STORAGE CONDITIONS

Store in a cool dry room, away from sources of fire and heat.
 Avoid direct exposure to sunlight. Recommended storage temperature: +5°C to +40°C. Protect from freezing.

SHELF LIFE

Spectral KLAR AQUA SHINE	12 months/20°C
Spectral AQUA SHINE HARDENER	12 months/20°C
SA-R10 Reducer	24 months/20°C

SAFETY

See Safety Data Sheet. Use appropriate personal protective equipment.

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 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

Do not pressure wash the coated part for 7 days.

Keep the pressure washer nozzle at least 30 cm away from the surface.

Do not expose the coated part to automatic car wash processes for 7 days.

COMPONENT QUANTITY BY WEIGHT
Spectral KLAR AQUA SHINE 100:50+20g
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 AQUA SHINE	Spectral AQUA SHINE HARDENER	SA-R10 Reducer
			20 %
0,10 l	62 g	31 g	12 g
0,15 l	93 g	47 g	19 g
0,20 l	124 g	62 g	25 g
0,25 l	155 g	78 g	31 g
0,30 l	186 g	93 g	37 g
0,40 l	248 g	124 g	50 g
0,50 l	310 g	155 g	62 g
0,75 l	465 g	233 g	93 g
1,00 l	620 g	310 g	124 g
2,00 l	1240 g	620 g	248 g

COMPONENT QUANTITY BY WEIGHT
Spectral KLAR AQUA SHINE 100:50+25g
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 AQUA SHINE	Spectral AQUA SHINE HARDENER	SA-R10 Reducer
			25 %
0,10 l	60 g	30 g	15 g
0,15 l	90 g	45 g	23 g
0,20 l	120 g	60 g	30 g
0,25 l	150 g	75 g	38 g
0,30 l	223 g	60 g	34 g
0,40 l	240 g	120 g	60 g
0,50 l	300 g	150 g	75 g
0,75 l	450 g	225 g	113 g
1,00 l	600 g	300 g	150 g
2,00 l	1200 g	600 g	300 g