

TECHNICAL DATA SHEET

Revision date: 03.06.2019

UHS AIR DRY EXPRESS CLEAR COAT

Article number:	11898
Colour:	colourless
Intended use:	Car refinishing product/ Varnish
General characteristics:	<p>UHS Air dry express clear coat has been optimized for both water and solvent based bi-coat systems in spot repairs. It is well known for its curing speed, with the car available in only 40 minutes after the application. There is no need for a heat treatment in the spray booth, which will save a significant amount of time in the painting cycle and greatly increase the productivity. The drying time in spray booth is 10 minutes at 60°C or 20 minutes at 40°C. The drying time using IR is only 5 minutes.</p> <p>UHS Air dry express clear coat can be polished after approx. 60 minutes. It has excellent UV, scratch and chemical resistance.</p> <p>UHS Air dry express clear coat is compliant with the European Norm 2004/42/CE, with a lower VOC content than conventional clears.</p>
Physical properties:	
Density at 20°C (g/cc):	0,98 ± 0,02%
Solids content (weight/volume):	52.5 % ± 2 weight; 43 % ± 2 vol.(mixed with hardener)
Features of dry film:	Theoretical yield (m ² /l): 7,5 - 8,5 (50-60 µm) Gloss 60°- 60°: 100 %
Surface preparation:	
The to be repaired surfaces must be properly primed, filled, sanded and degreased. Remove dust with a tack cloth. Then apply the clear coat directly on the basecoat (both solvent or water-based), after the basecoat is completely cured.	
Painting preparation process:	
Hardener:	UHS Hardener for 189 Clear coat

Mixing ratio: Paint + hardener 2:1 by volume

Dilution: -

Spraying viscosity 4mm DIN: Gravity spraying gun 15 – 16 s

Application instructions:

To achieve the optimal drying time of only 40 min. at 20 °C for assembly, please apply the clear coat according to the following instructions! Gravity spray gun settings: Material flow: from closed position open 1,5 or 2 turns, use wide spray pattern (not round!), for best result we recommend a 1,2 mm nozzle. Apply the clear coat in 2 crosshanded, thin layers. The first layer should be a fast hand thin closed glossy layer. Leave 5-10 min. flash of time between the layers.

The second layer should be a slow hand thin closed glossy layer. If possible to measure, the first layer should be 20-25 microns and the second layer should be 30-35 microns. The total thickness of the Air dry express clear coat should not exceed 50-60 microns, otherwise the drying time will increase.

Afterwards the surface can be polished only 60 min. after application at 20 °C.

The application must take place during the first 30 minutes after mixing both components.

The recommended use of UHS Air dry express clear coat is for spot repair only.

It is recommended to close the cans of the clear and the hardener, after their use.

Application process:

Application method	Pressure	Nozzle
Gravity spray gun	2.0 -2.5 bar	1.2 – 1.3 mm
HVLP	2.0 -2.5 bar	1.2 – 1.3 mm

Spraying operations	DFT	Consumption
2	50 – 60 µm	7.5 – 8.5 m ² /

Flash-off time	Between the coatings	Before the oven drying
	5 - 10 min.	5 - 10 min.

Drying	Dust free	Set to touch	Ready for assembly
Object temperature 20 °C	10 - 15 min.	35 min.	40 min.
Object temperature 60 °C	-	-	10 min.
IR-Drying shortwave	5 min.		

Storage:

Keep under cover in a cool and well-ventilated place avoiding direct sunlight. Temperatures between 5 and 30°C recommended.

Shelf life: 2 years from manufacturing date in the original unopened container.

VOC regulation:

415 g/l (Ready to use) - (2004/42/CE) IIB (D) (420)

This release replaces all eventually earlier issued versions.

For additional information, not contained in this Technical Data Sheet, please contact the supplier via:
info@chamaeleon-produktion.de

For safety information, please refer to the corresponding Safety Data Sheet.