

TECHNICAL DATA SHEET

Revision date: 11.01.2024

UHS 2K AIR DRY EXPRESS CLEAR COAT

Article number:	11898
Colour:	transparent
Intended use:	Car refinishing product/ Clear coat/ Varnish
Substrates:	Basecoat
General characteristics:	2K UHS Air dry express clear coat has been optimized for both water and solvent based systems in spot repairs. Outstanding 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 saves significant amount of time and energy in the painting cycle and greatly increase productivity. It provides excellent UV, scratch, and chemical resistance.

PAINTING PREPARATION PROCESS

Hardener: Chamäleon UHS Hardener 289

Dilution: without thinner

Mixing ratio (by volume): 2:1

Mixing ratio (by weight):

No thinner is added. Do not zero the scale when mixing.

Clear coat, g	Hardener, g	Total weight, g	Mixture quantity, ml
65	33	99	100
131	67	197	200
196	100	296	300
261	133	395	400
327	167	493	500
392	200	592	600

457	233	691	700
523	267	789	800
588	300	888	900
653	333	987	1000

Spraying viscosity 4 mm DIN (20 °C): 15 - 16 s

Pot life at 20 °C: 30 min

APPLICATION PROCESS

Processing conditions:

Please only use in an adequate ventilated environment with an ample supply of fresh air. Processing temperature should be at least +12 °C and max. air humidity should not exceed 80%.

Surface preparation:

The to be repaired surfaces must be properly primed, filled, sanded and degreased. Remove dust with a tack cloth. After the basecoat is completely cured, apply the clear coat directly on the basecoat (both solvent- or water based).

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 coat and the hardener, after their use.

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 m²/l

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		

*During IR-drying the object temperature should not exceed 60 – 70 °C

Polishing:

After full hardness time, recommended Chamäleon polishing compounds LASER

VOC regulation:

EU limit value: Category B/d 420 g/l

This product contains max. 415 g/l VOC

Shelf life:

24 months, if stored in tightly closed original containers

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.