CHALLENGER® 2K TOPCOAT

2K ACRYLIC TOPCOAT

Description

2-component topcoat system for solid colours for use on cars, buses and trucks.
Composition based on acrylic copolymer.

Products

2K…	CHALLENGER® 2K Topcoat Tints
CLT…	CHALLENGER® Tints
CL680	Hardener Slow
CL650	HS Hardener Medium
CL640	Hardener Fast
CL660	Universal Hardener
CL705	Reducer Fast
CL710	Reducer Medium
CL715	Reducer Slow

Properties

- CHALLENGER® 2K Topcoat is a very fast drying 2K acrylic topcoat with superior polishability, perfect gloss retention, high weather and chemical resistance.
- Gives excellent appearance, very good hiding and low consumption.
- Can be used for spot, panel and overall repair.

Substrates

- All OEM finishes, CHALLENGER® primer-fillers and CHALLENGER® fillers.
- All cleaned and sanded sound old finishes.

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PRODUCT PREPARATION

	CHALLENGER® colour tools	See colour formula on CHALLENGER® colour CD.				
	Mixing ratio		**2:1**	**Slow**	**Standard**	**Fast**
		CHALLENGER® 2K Topcoat	2	2	2	2
		CL680	---	1	---	---
		CL660	1	---	---	---
		CL650	---	---	1	---
		CL640	---	---	---	1
		CL705/710/715	---	0.3	0.3	0.3
	VOC	545-590 g/l				
	Potlife at 20°C	4 hr for CL650				
	Spray viscosity at 20°C	**DIN 4** **FORD 4** **AFNOR 4**	17-19 s 17-19 s 19-21 s			
	Spray equipment		**Fluid tip** (mm)	**Distance** (cm)		
		Gravity feed	1.2-1.4	20-25		
		Suction feed	1.4-1.8	20-25		
		HVLP	1.3-1.5	10-15		
		Pressure feed	1.0-1.2	20-25		
	Spray pressure	Gravity feed Suction feed HVLP Pressure feed	3-4 bar 3-4 bar 0.7 bar at nozzle 4-6 bar			
	Number of coats	2				
	Flash time	5-15 min between coats or wet-in-wet 10 min before bake.				
	DFT	40-50 micron				
	Drying		**15°C**	**20°C**	**30°C**	**20 min x 60°C**
		Dust-free	1 hr	40 min	20 min	imm.
		Dry to handle	6 hr	4 hr	2 hr 30 min	imm.
		Tape-free	O.N.	O.N.	6 hr	imm.
	IR-drying*	Flash time Distance	5 min 80 cm		* Guideline for short / medium wave IR equipment	
		Half power Full power	5 min 15-20 min			

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RECOMMENDED USE

Surface preparation

1. Clean surface with water and soap. Rinse and dry.
2. Degrease. Wipe dry with a clean cloth.
3. Repair according to damage.
4. Sand surface:
   a. dry mechanical P320 - P400 (finally with P500 will give best results);
   b. wet P800 - P1000.
5. Remove all traces of sanding dust, blowing oil-free compressed air.
6. Degrease. Wipe dry with a clean cloth.
7. Tack rag.

Topcoat application

On well prepared surface, apply 2 full coats wet-in-wet or with 5-15 min flash between coats.

Chemical resistance

When fully cured, CHALLENGER® 2K Topcoat is resistant to short exposures of the chemicals as listed:

sodium hydroxide	10%	battery acid
sulphuric acid	20%	toluene
hydrochloric acid	20%	xylene
phosphoric acid	20%	glycol
ammonia	10%	brake fluid, petrol

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Equipment cleaning

Use a correct solventborne gunwash.

Recoatability

At any time after tape-free time.

Remarks

- CHALLENGER® 2K Topcoat tints have to be thoroughly mixed before use.
- Close can of hardener tightly immediately after use, as this product will react with humid air and water and lose its hardening effect.
- Material has to be at room temperature (18-25°C) before use.

Product data

Theoretical coverage: 6-8 m²/l at recommended DFT - ready-to-spray

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Safety

Consult the Safety Data Sheet prior to use.
Observe the precautionary notices displayed on the container.

All other products referred to in the paint system build-up are from Challenger®. System properties will not be valid when the related material is used in combination with any other materials or additives not belonging to Challenger®, unless explicitly indicated otherwise.