



# CL240

## 2K HS CLEARCOAT

### Description

2-component, universal high solids clear.

Suitable in various application conditions because of the wide range of activators, from standard to slow.

Composition based on a special acrylic polyurethane copolymer.

### Products

CL240	2K HS Clearcoat
CL650	HS Hardener Medium
CL640	Hardener Fast
CL680	Hardener Slow
CL705	Reducer Fast
CL710	Reducer Medium

### Properties

- Has excellent mar, chemical and weather resistance and gives a long lasting high gloss finish.
- Has excellent polishability.
- Gives very fast air drying and allows short flash times between coats and bake depending on the selected activator.
- The wide choice of activators, allows to adjust this clear to different application conditions, from low/normal temperatures to very high temperatures.
- Can be used for spot, panel and overall repair.

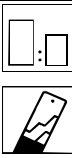




### Substrates

- CHALLENGER<sup>®</sup> Basecoat.
- All cleaned and sanded OEM finishes (not recommended on thermoplastic acrylic finishes).

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### PRODUCT PREPARATION

	<b>Mixing ratio</b>		<b>Fast (CL640)</b>		<b>Standard (CL650)</b>		<b>Slow (CL680)</b>		
			Volume	Weight	Volume	Weight	Volume	Weight	
		CL240	2	100	2	100	2	100	
		CL640	1	50	-	-	-	-	
		CL650	-	-	1	50	-	-	
		CL680	-	-	-	-	1	50	
CL705/710	5-10%	7-15	5-10%	7-15	5-10%	7-15			
	<b>VOC (2004/42/EC)</b>	519 g/l							
	<b>Potlife at 20°C</b>	6-8 hr							
	<b>Spray viscosity at 20°C</b>	<b>DIN 4</b>	17-19 s						
	<b>Spray equipment</b>		<b>Fluid tip</b>		<b>Distance</b>		<b>Pressure</b>		
		<b>Conventional guns</b>							
		Gravity feed	1.4-1.6 mm		15-20 cm		3-4 bar		
		Suction feed	1.6-1.8 mm		15-20 cm		3-4 bar		
		Pressure feed	1.0-1.2 mm		15-20 cm		3-4 bar		
		<b>Compliant guns (HVLP/HTE)</b>							
		Gravity feed	1.2-1.4 mm		10-15 cm		According to supplier's specifications		
		Suction feed	1.5-1.6 mm		10-15 cm				
Pressure feed	1.0-1.2 mm		10-15 cm						
	<b>Number of coats</b>	2							
	<b>Flash time</b>	5 min between coats. 5-10 min before bake.							
	<b>DFT</b>	55-65 µ							

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### PRODUCT PREPARATION (con'd)

	Drying	CL650	
		20°C	30 min x 60°C
	<b>Dust-free</b>	40 min	imm.
	<b>Dry to handle</b>	6 hr	30 min
	<b>Tape-free</b>	O.N.	1 hr 30 min
	<b>IR-drying*</b>	Flash time	5 min
		Distance	80 cm
		Half power	5 min
		Full power	15-20 min

\* Guideline for short / medium wave IR equipment

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### RECOMMENDED USE

#### Clearcoat application

When the CHALLENGER® Basecoat is completely flat, apply CL240 in 2 coats with 5 min flash between coats.

#### Chemical resistance

When fully cured, CL240 is resistant to short exposures of the chemicals as listed:

sodium hydroxide	20%	battery acid
sulphuric acid	25%	toluene
hydrochloric acid	20%	xylene
phosphoric acid	20%	glycol
ammonia	10%	brake fluid, petrol



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### RECOMMENDED USE (con'd)

#### Equipment cleaning

Use a correct solventborne gunwash.

#### Recoatability

At any time after tape-free time. After 24 hr, scuff sanding is required.

#### Remarks

- CL240 is recommended for spot/panel repair only.
- Close can of activator tightly immediately after use, as this product will react with humid air and water and lose its hardening effect.
- Activated material should not be returned to original can of non-activated material.
- Material has to be at room temperature (18-25°C) before use.

#### Product data

Package viscosity: 50-60 cp  
Theoretical coverage: 6.6-7.1 m<sup>2</sup>/l at recommended DFT - ready-to-spray

Products	Packages (l)	Shelf life at 20°C (year)	Density (kg/l)
CL240	1	2	0.974
CL650	0.25 - 0.5 - 1	2	0.959
CL640	1	2	0.986
CL680	0.5	2	0.972
CL705	1	2	0.874
CL710	1	2	0.901



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### RECOMMENDED USE (con'd)

#### **Safety**

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