TECHNICAL DATA SHEET
CL440W / CL440 / CL440B
2K FILLER - WHITE / GREY / BLACK

DESCRIPTION

CL440 (medium grey) / CL440W (white) / CL440B (black) are part of the Challenger repair system. These robust, high solids universal fillers have very wide application windows and deliver excellent vertical stability as well as outstanding filling power and adhesion. The colours can be used on their own or can be mixed together to deliver the optimal undercoat colour for the subsequent topcoat colour. They provide great topcoat holdout of Challenger topcoats.



FEATURES

- Simple to apply.
- Excellent vertical stability.
- Easy to sand.
- Very good adhesion.
- Can be converted to non-sanding versions.

PRODUCT LIST

- CL440 2K Filler Grey
- CL440B 2K Filler Black
- CL440W 2K Filler White
- CL640 Hardener Fast
- CL650 HS Hardener Medium
- CL680 Hardener Slow
- CL705 Reducer Fast
- CL710 Reducer Medium
- CL715 Reducer Slow
- CL330 Non-sanding Additive

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Product preparation - application STANDARD SANDING



It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.




Wash Primer or epoxy primer
Old or original paintwork well sanded and cleaned.
OEM Primer (e-coat), sanded and cleaned.
Glass fibre reinforced polyester substrates, free of release agents, sanded and cleaned.



	Spot & panel repair		Standard		Large surface	
	Volume	Weight	Volume	Weight	Volume	Weight
CL440x	4	100	4	100	4	100
CL640 *	1	16	-	-	-	-
CL640 / CL650	-	-	1	16	-	-
CL650 / CL680	-	-	-	-	1	16
CL705	0 - 10 %	0 - 7	-	-	-	-
CL705 / CL710	-	-	0 - 10 %	0 - 8	-	-
CL710 / CL715	-	-	-	-	0 - 10 %	0 - 8

* RFU viscosity DIN 4: 14 - 16s / For Coverage Enhancer mixing ratio, see mixing table in Remarks / Dry Film Thickness: 20 - 30µ



Potlife at 20°C: 1 hr - 1 hr 15 min



	Spray nozzle	Spray pressure	
Compliant	1.6 - 1.9	1.6 - 2 bar	inlet pressure
HVLP	1.6 - 1.9	0.7 bar	atomisation pressure

see manufacturer's instructions




1 - 3 coats

with intermediate and final flash-off until flat



	CL640	CL650	CL680
20 °C	3 hr	4 hr	6 hr
40 °C	30 min	40 min	1 hr
65 °C	20 min	30 min	40 min



Guideline for short wave IR equipment
Half power: 5 min
Full power: 15 min




P360 - P500
P800 - P1000



2K Topcoat
Challenger Basecoat + Clearcoat

VOC compliant — This product mix is not VOC compliant.

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Product preparation - application STANDARD NON-SANDING



It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.




Wash Primer or epoxy primer
Old or original paintwork well sanded and cleaned.
OEM Primer (e-coat), sanded and cleaned.
Surfaces pretreated with 2K polyester products and then finely sanded and cleaned.
Glass fibre polyester substrates, free of release agents, sanded and cleaned.



	Spot & panel repair		Standard		Large surface	
	Volume	Weight	Volume	Weight	Volume	Weight
CL440x	2	100	2	100	2	100
CL650	-	-	1	32	-	-
CL680	-	-	-	-	1	33
CL640 *	1	33	-	-	-	-
CL330	1	31	1	31	1	31

* RFU viscosity DIN 4: 14 - 16s / For Coverage Enhancer mixing ratio, see mixing table in Remarks / Dry Film Thickness: 20 - 30µ



Potlife at 20°C: 1 hr - 1 hr 30 min



	Spray nozzle	Spray pressure	
Compliant	1.3 - 1.5	1.8 - 2.2 bar	inlet pressure
HVLP	1.3 - 1.5	0.7 bar	atomisation pressure

see manufacturer's instructions



2K Topcoat
Challenger Basecoat + Clearcoat

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Products

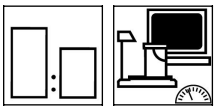
CL440 2K Filler Grey
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CL330 Non-sanding Additive

Product mix



Mixing ratios with special agents are available in the productmix table on Colour Channel and in the specific TDS.



60 - 80 µm per coat (sanding surfacer)
20 - 30 µm non-sanding

Theoretical coverage

380 - 460 m²/l at 1 micron dry film thickness
Due to different hardener characteristics and different mixing ratios of the ready-to-use mixture in some TDS versions, the theoretical coverage calculation may vary.
Note: The practical material consumption depends on several factors, e.g. geometry of the object, surface formation, application method, spray gun setting, inlet pressure, etc.



Clean after use with a suitable solventbased guncleaner.

Remarks

- Material has to be at room temperature (18-25°C) before use.
- Mix thoroughly by hand before placing the can on mixing machine.
- Allow additional time for preheating up to panel temperature.
- Surplus ready for use material should not be returned to original can.
- When isolating certain spots - even on problem substrates - the best results are achieved with a medium film thickness of 80-120µm in 2 coats, after either air drying overnight or force drying/IR drying. With problem substrates, careful pretreatment is necessary and the Filler must be applied to the entire area.
- For dry film thicknesses of more than 150 micron air dry overnight at 20°C or 40 minutes at 60-65°C.

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	White	Light Grey	Grey	Dark Grey	Black
CL440W	100	72.5	-	-	-
CL440	-	27.5	100	60	-
CL440B	-	-	-	40	100

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

All other products referred to in the refinish build up are from our Challenger product range. System properties will not be valid when the related material is used in combination with any other materials or additives which are not part of our Challenger product range, unless explicitly indicated otherwise.

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