

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 with CL330.

PRODUCT LIST

- CL440 2K Filler Grey
- CL440B 2K Filler Black
- CL440W 2K Filler White
- CL640 Hardener Fast
- CL650 HS Hardener Medium
- CL680 Hardener Slow
- CL6400 VOC Hardener Fast
- CL6500 VOC Hardener
- CL705 Reducer Fast
- CL710 Reducer Medium
- CL715 Reducer Slow
- CL330 Non-sanding Additive

TECHNICAL DATA SHEET

CL440W / CL440 / CL440B

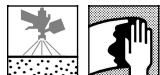
2K FILLER - WHITE / GREY / BLACK



Product preparation - application STANDARD SANDING NON VOC



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
CL440W / CL440 / CL440B	4	100	4	100	4	100
CL640	1	16	-	-	-	-
CL650	-	-	1	16	-	-
CL680	-	-	-	-	1	16
CL705	0 - 10%	0 - 7	-	-	-	-
CL705 / CL710	-	-	0 - 10%	0 - 7	-	-
CL710 / CL715	-	-	-	-	0 - 10%	0 - 7

RFU viscosity DIN 4: 20 - 25s
For Coverage Enhancer mixing ratio, see mixing table in Remarks.



Pot life at 20°C: 1 hr - 1 hr 15 min



	Spray nozzle	Spray pressure	
Compliant	1.4 - 1.7	1.8 - 2.2 bar	inlet pressure
HVLP	1.4 - 1.7	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



Challenger 2K Topcoat
Challenger Basecoat + Clearcoat

VOC compliant

This product mix is not VOC compliant.

TECHNICAL DATA SHEET

CL440W / CL440 / CL440B

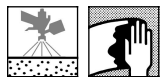
2K FILLER - WHITE / GREY / BLACK



Product preparation - application STANDARD NON-SANDING NON VOC



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
CL440W / CL440 / CL440B	2	100	2	100	2	100
CL680	-	-	-	-	1	32
CL650	-	-	1	32		
CL640	1	32	-	-		
CL330	1	30	1	30	1	30

RFU viscosity DIN 4: 14 - 16s
For Coverage Enhancer mixing ratio, see mixing table in Remarks.



Pot life 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



1 coat

final flash-off: 15 min - 8 hr with 2K Topcoat
final flash-off: 15 min - 45 min with Challenger Basecoat



Challenger 2K Topcoat
Challenger Basecoat + Clearcoat

VOC compliant

This product mix is not VOC compliant.

TECHNICAL DATA SHEET

CL440W / CL440 / CL440B

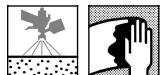
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Product preparation - application STANDARD SANDING VOC



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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 reinforced polyester substrates, free of release agents, sanded and cleaned.



	Spot & Panel repair		Standard	
	Weight	Volume	Weight	Volume
CL440W / CL440 / CL440B	6	100	6	100
CL6400	1	11.3	-	-
CL6500	-	-	1	11.3
CL705	10 - 20%	7 - 14	-	-
CL705 / CL710	-	-	10 - 20%	7 - 14
CL710 / CL715	-	-	-	-

RFU viscosity DIN 4: 20 - 25s
For Coverage Enhancer mixing ratio, see mixing table in Remarks.



Pot life at 20°C: 1 hr - 1 hr 15 min



	Spray nozzle	Spray pressure	
Compliant	1.4 - 1.7	1.8 - 2.2 bar	inlet pressure
HVLP	1.4 - 1.7	0.7 bar	atomisation pressure

see manufacturer's instructions



1 - 3 coats

with intermediate and final flash-off until flat



	CL6400	CL6500	CL6600
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



Challenger 2K Topcoat
Challenger Basecoat + Clearcoat

VOC compliant

2004/42/IIB(c) 540: The EU limit value for this product (product category: IIB(c)) in ready to use form is maximum 540 g/l of VOC. The VOC content of this product in ready to use form is maximum 540 g/l.

TECHNICAL DATA SHEET

CL440W / CL440 / CL440B

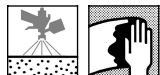
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Product preparation - application STANDARD NON-SANDING VOC



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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	
	Volume	Weight	Volume	Weight
CL440W / CL440 / CL440B	3	100	3	100
CL6500	-	-	1	22
CL6400	1	22	-	-
CL330	1.5	30	1.5	30

RFU viscosity DIN 4: 14 - 16s
For Coverage Enhancer mixing ratio, see mixing table in Remarks.



Pot life 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



1
final flash-off: 15 min - 8 hr with 2K Topcoat
final flash-off: 15 min - 45 min with Challenger Basecoat



Challenger 2K Topcoat
Challenger Basecoat + Clearcoat

VOC compliant

2004/42/IIB(c)(540) 540: The EU limit value for this product (product category: IIB(c)) in ready to use form is maximum 540 g/l of VOC. The VOC content of this product in ready to use form is maximum 540 g/l.

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Products

CL440 2K Filler Grey
CL440B 2K Filler Black
CL440W 2K Filler White

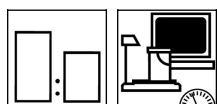
CL640 Hardener Fast
CL650 HS Hardener Medium
CL680 Hardener Slow

CL6400 VOC Hardener Fast
CL6500 VOC Hardener

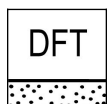
CL705 Reducer Fast
CL710 Reducer Medium
CL715 Reducer Slow

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



Clean after use with a suitable solventbased guncleaner.

Remarks

- Material has to be at room temperature (18-25°C) before use.
- Mix thoroughly and put can on mixing machine.
- Allow additional time for preheating up to panel temperature.
- When isolating certain spots - even on problem substrates - the best results are achieved with a medium film thickness of 80-120 μm 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.
- Surplus ready for use material should not be returned to original can.
- Do not overcoat the Filler with waterborne basecoat.

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CL440W / CL440 / CL440B

2K FILLER - WHITE / GREY / BLACK



	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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