

Easy as 1+1

A simpler way to the perfect matt look. Permacron Matt System Clear Coat 8185 and Permacron Semi-Gloss System Clear Coat 8170 make the application process effortless, so you can achieve smooth matt surface results with lasting quality even for the trendy ultra matt look on modern OEM vehicles.

- Suitable for the repair of modern ultra-matt OEM finishes
- . Wide range of gloss levels from 5 to 65 Gloss Units at 60°
- · Easy application in daily work routine
- Very good drying characteristics: 30 min at 60 °C
- · Excellent homogeneous appearance
- Consistent, reproducible clear coat results

For professional use only!

Spies Hecker simply closer.



An Axalta Coating Systems Brand



Product preparation - application STANDARD



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





Permahyd Hi-TEC Base Coat 480 / Permahyd Base Coat 280/285: Surfaces must be dried / flashed-off in accordance with TDS before application

Permacron Basecoat 293/295: Surfaces must be dried / flashed-off in accordance with TDS before application

Old or original paintwork well sanded and cleaned.



Matt System Clearcoat	Hardener	Reducer
Weight	Weight	Weight
100*	26.6	9.1
8185/8170*	3225	3385
	3240**	

^{*}For the required gloss level and mixing ratio, please refer to the Mattrix table.



Potlife at 20°C: 1 hr 15 min - 1 hr 30 min



	Spray nozzle	Spray pressure	
Compliant	1.3 - 1.4	1.8 - 2 bar	inlet pressure

see manufacturer's instructions





2 coats

intermediate and final flash-off: 15 min at 20°C



	3225/3240
60 - 65 °C	25 min - 35 min

OC compliant

2004/42/IIB/(e)(840) 530: The EU limit value for this product (product category: (e)) in ready to use form is maximum 840 g/l of VOC. The VOC content of this product in ready to use form is maximum 530 g/l.

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^{**}Recommended for large repairs at high temperature >30°C.

Stir the mixture of 8185 and 8170 thoroughly before adding hardener and reducer.



Product preparation - application LOW SIDE GLOSS



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





Permahyd Hi-TEC Base Coat 480 / Permahyd Base Coat 280/285: Surfaces must be dried / flashed-off in accordance with TDS before application

Permacron Basecoat 293/295: Surfaces must be dried / flashed-off in accordance with TDS before application

Old or original paintwork well sanded and cleaned.



Matting Component/Matt System Clearcoat	Hardener	Reducer
Weight	Weight	Weight
100*	26.6	9.1
MA110/8170*	3225	3385
	3240**	

^{*}For the required gloss level and mixing ratio, please refer to the Mattrix table.



Potlife at 20°C: 1 hr 15 min - 1 hr 30 min



	Spray nozzle	Spray pressure	
Compliant	1.3 - 1.4	1.8 - 2 bar	inlet pressure

see manufacturer's instructions





2 coats

intermediate and final flash-off: 15 min at 20°C



	3225/3240
60 - 65 °C	25 min - 35 min

VOC compliant

2004/42/IIB/(e)(840) 530: The EU limit value for this product (product category: (e)) in ready to use form is maximum 840 g/l of VOC. The VOC content of this product in ready to use form is maximum 530 g/l.

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^{**}Recommended for large repairs at high temperature >30°C.

Stir the mixture of MA110 and 8170 thoroughly before adding hardener and reducer.



Product preparation - application MATTRIX



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



MATTRIX STANDARD*	ML1	ML2	ML3	ML4	ML5	ML6
Gloss Level at 60°	5-10 GU	11-15 GU	16-25 GU	26-35 GU	36-50 GU	51-65 GU
8185	80	65	45	40	20	0
8170	20	35	55	60	80	100

^{*}When applying on Permahyd Hi-TEC Base Coat 480 or Permahyd Base Coat 280/285.

MATTRIX STANDARD**	ML1	ML2	ML3	ML4	ML5	ML6
Gloss Level at 60°	5-10 GU	11-15 GU	16-25 GU	26-35 GU	36-50 GU	51-65 GU
8185	100	70	50	45	30	10
8170	0	30	50	55	70	90

^{**}When applying on Permacron Base Coat 293/295 or on sanded old or original paintwork/clearcoat

MATTRIX	ML1 LOW SIDE GLOSS*
Gloss Level at 60°	5-10 GU
MA110	40 - 25
8170	60 - 75

^{*}When applying on Permahyd Hi-TEC Base Coat 480 or Permahyd Base Coat 280/285.

MATTRIX	ML1 LOW SIDE GLOSS**
Gloss Level at 60°	5-10 GU
MA110	50 - 35
8170	50 - 65

^{**}When applying on Permacron Base Coat 293/295 or on sanded old or original paintwork/clearcoat Please refer to the Matt Level (ML) information given in the individual colour formula and check for available mixing ratios on Phoenix ancillary product mix.



Not applicable

VOC compliant

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Basecoat blending process.

IMPORTANT APPLICATION ADVICE

Permahyd Hi-TEC Base Coat 480:

When applying Permacron Matt Clear System onto Permahyd Hi-TEC Base Coat 480, all repair panels must be fully coated with either coloured Permahyd Hi-TEC Base Coat 480 or Permahyd Hi-TEC Blend-in Additive and flashed-off. In order to avoid any gloss differences across the repair job, you must not leave any area uncoated. This process applies to all Permahyd Hi-TEC Base Coat colours (solids and effects).

Please refer to the dedicated Mattrix table for the appropriate mixing ratio of the matt clear system and required gloss level.

Permahyd Base Coat 280/285:

When applying Permacron Matt Clear System onto Permahyd Base Coat 280/285, all repair panels must be fully coated with either coloured Permahyd Base Coat 280/285 or Permahyd Base Coat WB888 Transparent and flashed-off. In order to avoid any gloss differences across the repair job, you must not leave any area uncoated. This process applies to all Permahyd Base Coat colours (solids and effects). Please refer the dedicated Mattrix table for the appropriate mixing ratio of the matt clear system and required gloss level.

Permacron Base Coat 293/295:

When applying Permacron Matt Clear System onto Permacron Base Coat 293/295, no special requirements are to be considered. Please refer to the dedicated Mattrix table for the appropriate mixing ratio of the matt clear system, and required gloss level when used on Permacron Base Coat.

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Application process on old or original paintwork.

IMPORTANT APPLICATION ADVICE

Old or original paintwork/clearcoat, well sanded and cleaned:

When applying Permacron Matt Clear System onto this particular substrate, the substrate should be fully cured, well sanded and thoroughly cleaned.

If newly applied base coat has been overcoated with a normal gloss clear, this must be thoroughly dried, sanded and cleaned prior to overcoating with the Matt Clear System.

Please refer to the dedicated Mattrix table for the appropriate mixing ratio of the Matt Clear System and required gloss level when used on sanded old or original paintwork/clearcoat.



Products

Permacron® Matt System Clear Coat 8185 Permacron® Semi-Gloss System Clear Coat 8170

Permasolid® VHS Hardener 3225 Permasolid® VHS Hardener 3240 extra slow

Permacron® Reducer 3385 slow

Permasolid® Matting Component MA 110

Product mix



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



DIN 4: 15 - 19 s at 20°C



45 - 60 μm



Remarks

- Material has to be at room temperature (18-25°C) before use.
- · Hand stir material thoroughly. Sedimentation in the can will lead to a gloss shift, so that the expected and required gloss level is not achieved.
- · Following an initial hand stirring, the product can be fitted with a mixing lid and placed on the mixing machine.
- Surplus ready for use material should not be returned to original can.
- · Always mix fresh products prior to application, and strictly adhere to the specified product adjustments. Product mix should be done by weight, to ensure highest accuracy.
- Please consider that the gloss level can vary and is also dependent on the colour being used. Because of this we recommend to define the best matching gloss level by producing sprayout cards relevant to the vehicle being repaired.
- Compare the spray out cards to the vehicle being repaired to confirm colour and gloss level accuracy. This should be done in daylight conditions where possible.
- · When applying on plastic/flexible substrates, there is no need for additional elastification.
- Each coat has to be applied evenly to ensure a uniform closed film. Dry applications can lead to patchiness of the surface.
- It is required to work as clean as possible during all steps of the repair. Dust inclusions can not be removed from the dry film by sanding and polishing.
- Allow sufficient time for pre-heating up to panel temperature during the forced drying process.
- Forced drying is the preferred drying method and gives the most stable and consistent reproducibility. Air dry overnight is possible but might lead to gloss deviations.
- · Clearcoat fading/blending is not possible.
- · Freshly painted substrates should be handled with care.
- The use of hardener/reducer combinations other than those will impact the gloss level and final result considerably.
- Close can of hardener tightly immediately after use, as this product will react with humid air and water and lose its hardening effect.
- · Please refer to the Matt Level (ML) information given in the individual colour formula and check for available mixing ratios on Phoenix ancillary product mix.

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 Spies Hecker 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 Spies Hecker product range, unless explicitly indicated otherwise.

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