# CROMAX MATT CLEAR SYSTEM

## PRODUCT DESCRIPTION

Achieve excellent results quicker and easier than ever. CC6020 Chroma Matt System Clear & CC6010 Chroma Semi Matt System Clear make a match to every matt finish repair – even for the ultra-low gloss levels. With significantly shorter drying times, this best-in-class system also boosts bodyshop productivity.

**A perfect matt finish**

## FEATURES

01 Suitable for the repair of modern ultra-matt OEM finishes

02 Wide range of gloss levels from 5 to 65 Gloss Units at 60°

03 Easy application in daily work routine

04 Very good drying characteristics: 30 min at 60 °C

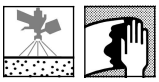
05 Excellent homogeneous appearance

06 Consistent, reproducible clearcoat results

# CROMAX MATT CLEAR SYSTEM

## Product preparation - application STANDARD

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



Cromax Pro Basecoat / Cromax EZ+: Surfaces must be dried / flashed-off in accordance with TDS before application
Activated Centari Basecoat 600/6000: Surfaces must be dried / flashed-off in accordance with TDS before application
Old or original paintwork well sanded and cleaned.

| Matt System Clear | Activator | Thinner |
|---|---|---|
| **Weight** | Weight | Weight |
| **100*** | 26.6 | 9.1 |
| **CC6020 / CC6010*** | XK205 | XB387 |
| | XK206** | |

*For the required gloss level and mixing ratio, please refer to the Mattrix table.
**Recommended for large repairs at high temperature >30°C.
Stir the mixture of CC6020 and CC6010 thoroughly before adding activator and thinner.

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

| | XK205/XK206 |
|---|---|
| **60 - 65 °C** | 25 min - 35 min |

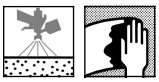
VOC compliant

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.

# CROMAX MATT CLEAR SYSTEM

## 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.



Cromax Pro Basecoat / Cromax EZ+: Surfaces must be dried / flashed-off in accordance with TDS before application
Activated Centari Basecoat 600/6000: Surfaces must be dried / flashed-off in accordance with TDS before application
Old or original paintwork well sanded and cleaned.

| Flattening Binder/Matt System Clear | Activator | Thinner |
|---|---|---|
| **Weight** | Weight | Weight |
| **100*** | 26.6 | 9.1 |
| **AU175 / CC6010*** | XK205 | XB387 |
| | XK206** | |

*For the required gloss level and mixing ratio, please refer to the Mattrix table.
**Recommended for large repairs at high temperature >30°C.
Stir the mixture of AU175 and CC6010 thoroughly before adding activator and thinner.

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

| | XK205/XK206 |
|---|---|
| **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.

# CROMAX MATT CLEAR SYSTEM

## 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 |
| **CC6020** | 80 | 65 | 45 | 40 | 20 | 0 |
| **CC6010** | 20 | 35 | 55 | 60 | 80 | 100 |

*When applying on Cromax Pro Basecoat or Cromax EZ+ Basecoat.

| 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 |
| **CC6020** | 100 | 70 | 50 | 45 | 30 | 10 |
| **CC6010** | 0 | 30 | 50 | 55 | 70 | 90 |

**When applying on activated Centari Basecoat 600/6000 or on sanded old or original paintwork/clearcoat.

| MATTRIX | ML1 LOW SIDE GLOSS* |
|---|---|
| **Gloss Level at 60°** | 5-10 GU |
| **AU175** | 40 - 25 |
| **CC6010** | 60 - 75 |

*When applying on Cromax Pro Basecoat or Cromax EZ+ Basecoat.

| MATTRIX | ML1 LOW SIDE GLOSS** |
|---|---|
| **Gloss Level at 60°** | 5-10 GU |
| **AU175** | 50 - 35 |
| **CC6010** | 50 - 65 |

**When applying on activated Centari Basecoat 600/6000 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 Chromaweb ancillary product mix.

Not applicable

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.

# CROMAX MATT CLEAR SYSTEM

## Basecoat blending process.

IMPORTANT APPLICATION ADVICE

Cromax Pro Basecoat:

When applying Chroma Matt Clear System onto Cromax Pro Basecoat, all repair panels must be fully coated with either coloured Cromax Pro Basecoat or Cromax Pro Basecoat Blender 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 Cromax Pro Basecoat 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.

Cromax EZ+ Basecoat:

When applying Chroma Matt Clear System onto Cromax EZ+ Basecoat, all repair panels must be fully coated with either coloured Cromax EZ+ Basecoat or Cromax EZ+ Basecoat Blender 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 Cromax EZ+ Basecoat 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.

# CROMAX MATT CLEAR SYSTEM

## Application process on old or original paintwork.

IMPORTANT APPLICATION ADVICE

Activated Centari Basecoat 600/6000:

When applying Chroma Matt Clear System onto activated Centari 600 Basecoat/activated Centari 6000 Basecoat, all repair panels must be fully coated with either activated Centari 600 Basecoat/activated Centari 6000 Basecoat or activated Blender AB160 (Centari 600)/activated XB165 (Centari 6000) and dried/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 Centari 600 Basecoat/Centari 6000 Basecoat colors (solids and effects).
Please refer to the dedicated Matrix table for the appropriate mixing ratio of the matt clear system and required gloss level. For activation of Basecoat and Blender please also refer to the technical data sheet of the basecoat quality in use.

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

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

If newly applied basecoat 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.

# CROMAX MATT CLEAR SYSTEM

## Cleaning, care and maintenance of matt finishes

CLEANING OF THE MATT FINISHES.

Matt finishes require special maintenance when compared to traditional coatings that use a gloss clearcoat. Conventional, common and normal treatment of this special coating can lead to irreparable damage of the matt surface. This guideline is to help the car owner use the correct and appropriate care to keep the matt finish in a uniform and flawless condition over time.
On heavily soiled matt finishes, first remove dust and coarse dirt by cleaning the surface carefully. The use of a high-pressure cleaner is possible with care. Please refer to the specific OEM guidelines of the vehicle being repaired. The nozzle must be held at a distance of no less than 30 cm from the object.

Do not remove contaminants by using a dry cloth, as this may cause severe damage to the surface.
Remove stubborn traces of insects or bird droppings by first soaking in water. If these residues remain after washing the use of insect removers or special cleaner for matt finishes with a micro fiber cloth is recommended.
Tar spots or splashes can be removed by using a commercial tar remover or silicone remover. Proceed carefully by using a micro fiber cloth and without excessive pressure.

Greasy or oily substances and fingerprints should be removed immediately. The use of 3M Glass Cleaner 08631 or special cleaner for matt finishes like SwissVax products should be used. Spray onto the affected area and wipe of gently by using a soft micro fibre cloth.
Do not try to remove any stubborn contaminants by rubbing the affected area with pressure, as this will cause patches with increased gloss which cannot be reversed.

After removing contamination start the washing process by rinsing the vehicle with plenty of clean water.
Washing the vehicle by hand using a soft sponge or micro fiber cloth is recommended.
Please use a neutral detergent or car wash product specifically developed for matt finishes. Make sure that the washing agent does not contain any wax or polish ingredients as this may lead to irritations or unevenness on the matt finishes.
Rinse the vehicle again with plenty of clean water and dry with a damp leather cloth or soft micro fiber towel.

Please follow the manufacturer instructions of the cleaning product in use.

# CROMAX MATT CLEAR SYSTEM

## Cleaning, care and maintenance of matt finishes

DO'S AND DONT'S

Do not apply any polish or wax compounds for gloss surfaces to the matt finish, as this will cause blotchy patches. Protect matt finishes from environmental influences by using products which are specifically developed for matt finishes only and always adhere to the manufacturers guidelines.
Even if some OEMs allow the use of an automatic carwash, manual car washing by hand is preferred. This is due to the quality of brushes, cleaning agents in use and program settings being unknown and repeated use over time result in gloss differences appearing in the matt finish.

When hand washing your vehicle, do not use the same sponge for your wheels and painted surfaces, as hard dirt particles or little stones can penetrate into your sponge and can leave surface scratches on your matt paint.
Do not apply any adhesive labels, stickers or similar items to the matt paint surface, as adhesive residues can damage the paint film.
The use of magnetic signs should be avoided, as this can leave tiny scratches in the matt paint surface.
Rubbing with high pressure to remove any contamination on the matt surface should be avoided as this will cause patches with increased gloss which cannot be reversed.

In order to avoid water spots, please do not let the vehicle air dry. Always dry the car by using a damp leather cloth or soft micro fiber towel. Do not wash the car in direct sunlight and ensure that the paint surface is not hot.
Because environmental influences and weathering can impact the appearance of the matt paint over time, the use of special matt finishes waxes, e.g. SwissVax could be considered to refresh the look of the matt surface. These kind of products can also be used to adapt the look of freshly applied matt surfaces to adjacent old paint work. If required apply the special matt finish wax to the adjacent old paint work to equalize the appearance of both surfaces.

Slight irritations, marring or fingerprints caused during the re-assembly process of the freshly applied matt finish, can be removed by spraying 3M Glass Cleaner 08631 or 3M Finish Control Spray 55535 onto the affected area and wipe off with a clean micro fiber cloth.
Do not touch the freshly applied matt paint until it is completely dried and cooled down. Touching the still warm surface might leave blotchy prints or patches in the surface. The vehicle must not be polished!

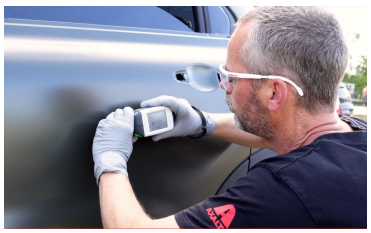
These recommendations and guidelines are not exhaustive and do not cover all different OEM recommendations, we suggest that you refer to the specific OEM manuals for care and maintenance of the original matt finish in place.

# CROMAX MATT CLEAR SYSTEM

## Cleaning, care and maintenance of matt finishes

SURFACE PREPARATION FOR SPECTRO MEASUREMENT

Having a clean surface is essential to carry out spectro measurement. With matt finishes you can't simply polish the surface to remove any scratches or oxidation which is on the surface.
When the car is thoroughly cleaned (please follow our recommendation for cleaning of matt finishes), it is recommended to look for an area which is:
- as close to the repair as practically viable.
- undamaged and free of scratches.
- free of surface contamination, as possible.



When you have determined your chosen area, remove any initial and remaining contamination using 3910WB Cromax® Waterborne Prepclean and/or 3911WB Cromax® Waterborne Final Clean.
Follow this by using a cleaning product developed for matt finishes, e.g. SwissVax products.
The final step is to make the surface ready for measuring by a final clean with 3911WB Cromax® Waterborne Final Clean.
Always use a soft cleaning or micro fibre cloth. Do not use hard paper cloth as this may leave fine scratches in the surface of the matt finish.
Follow as well the advice and recommendations of the manufacturer of the cleaning product in use.

# CROMAX MATT CLEAR SYSTEM

## Products

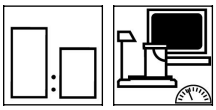
CC6010 Chroma Semi Matt System Clear
CC6020 Chroma Matt System Clear

XK205 Low Emission Activator
XK206 Low Emission Activator Slow

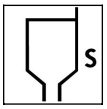
XB387 HI-Temp Thinner

AU175 Flattening Binder

## Product mix



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




DIN 4: 15 - 19 s at 20°C

45 - 60 µm

| | |
|---|---|
| **Theoretical coverage** | 368 - 373 m²/l at 1 micron dry film thickness<br>Due to different activator characteristics and different mixing ratios of the ready-to-use mixture in some TDS versions, the theoretical coverage calculation may vary.<br>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. |

# CROMAX MATT CLEAR SYSTEM

## Remarks

- 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.
- 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.
- Surplus ready for use material should not be returned to original can.
- 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.
- For black colors it is recommended to use activated basecoat material according to the basecoat TDS.
- 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 UV drying undercoats is not recommended and must be avoided in the build-up with Matt Clear System.
- The use of 1K undercoats is not recommended and must be avoided in the build-up with Matt Clear System.
- Material has to be at room temperature (18-25°C) before use.
- The use of activator/thinner combinations other than those will impact the gloss level and final result considerably.
- Close can of Activator 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 Chromaweb 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 Cromax 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 Cromax product range, unless explicitly indicated otherwise.

For professional use only! The information provided in this documentation has been carefully selected and arranged by us. It is based upon our best knowledge on the subject at the date of issuance. The Information is given for information purposes only. We are not liable for its correctness, accuracy and completeness. It is up to the user to check the information with regard to up-to-dateness and suitability for his intended purpose. The intellectual property in this Information, including patents, trademarks and copyrights, is protected. All rights reserved. The relevant Material Safety Data Sheet and Warnings displayed on the product label need to be observed. We may modify and/ or discontinue operation of all or portions of this Information at any time in our sole discretion, without notice and assume no responsibility to update the Information. All rules set forth in this clause shall apply accordingly for any future changes and amendments.