



TECHNICIAN'S INSTRUCTIONS

AOM – 219: Application of a Basecoat and Tinted Clearcoat Finish

Your objective:

- To identify and mix the colours to the correct shade and in accordance with the paint manufacturer's data sheets.
- To demonstrate how to identify the number of tinted clearcoats which are required to replicate the original colour and shade.
- To demonstrate the application of a basecoat and blended clearcoat
- To demonstrate blending and fading techniques.
- To demonstrate how to rectify minor surface defects by using, sanding and polishing techniques.

Facilities, equipment and materials that you must check are to hand at the workstation prior to the assessment:

- Personal Protective Equipment (PPE)
- Vehicle protection equipment and materials
- Technical and safety information for the products
- Relevant tinters, basecoats and clearcoats
- A suitable vehicle panel which will be used for application
- A suitable vehicle or panel for colour matching (with the colour code or reference available)
- Rubbing compound, polish and cloth
- Colour retrieval system
- Colour matching equipment
- Cleaning agents and dispensers
- Cleaning paper/cloth
- Masking materials and dispensers
- Mixing scheme and scales
- Paint consumables, for example: thinners, hardeners tack cloths, mixing pots, paint strainers, disposable paint pots and blending / fade out products.
- Spray guns
- Spray gun cleaning equipment
- Paint test cards and /or panels
- Drying and curing equipment
- Abrasives for fault rectification / dirt inclusions
- Polishing equipment



Complete the following tasks:

1. Set up and wear the appropriate personal protective equipment.
2. Consult relevant technical information and ensure that ADAS systems are not affected by the refinishing processes.
3. Identify the foundation and substrate material.
4. Identify the colour and shade of the vehicle or panel.
5. Prepare and mix the basecoat and tinted clearcoat as stated by the paint manufacturer.
6. Set up, adjust and test the spraying equipment.
7. Apply the basecoat and tinted clearcoat to a number of spray out cards or a 'let down panel'.
8. Identify the spray out card and the number of coats which matches the vehicle or the assessment panel.
9. Apply the basecoat and tinted clearcoat and blend them into the adjacent areas, using the paint manufacturers guidelines.
10. Mix the un-tinted clearcoat (if applicable) as stated by the paint manufacturer.
11. Apply and fade out the clearcoat in accordance with the paint manufacturers guidelines.
12. Check the newly apply coatings for evenness and any surface defects.
13. Cure the applied coatings as stated by the paint manufacturer.
14. Rectify minor surface defects, for example dirt inclusions.
15. Dispose of waste materials safely and legally.
16. Clean all the equipment.
17. Return and store the tools, equipment, products and consumables in their appropriate place.

Time limit – 3.5 hours (Excluding any drying or curing times)

WORKSTATION REQUIREMENTS

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Facilities, equipment and materials required at the workstation:

- Personal Protective Equipment (PPE)
- Vehicle protection equipment and materials
- Technical and safety information for the products
- Relevant tinters, basecoats and clearcoats
- A suitable vehicle panel which will be used for application
- A suitable vehicle or panel for colour matching (with the colour code or reference available)
- Rubbing compound, polish and cloth
- Colour retrieval system
- Colour matching equipment
- Cleaning agents and dispensers
- Cleaning paper/cloth
- Masking materials and dispensers
- Mixing scheme and scales
- Paint consumables, for example: thinners, hardeners tack cloths, mixing pots, paint strainers, disposable paint pots and blending / fade out products.
- Spray guns
- Spray gun cleaning equipment
- Paint test cards and /or panels
- Drying and curing equipment
- Abrasives for fault rectification / dirt inclusions
- Polishing equipment



Workstation set up required:

- Provide all the tools, equipment, products and consumables which are appropriate for this task

Note: *All Material Safety Data Sheets and Technical Data Sheets must be available*

- Provide the personal protection equipment in conjunction with the *Material Safety Data Sheets*.
- Provide vehicle protection equipment - any dispensers must be working efficiently.
- Provide cleaning and static removal equipment.
- Supply a new vehicle panel or a previously painted vehicle panel which has been prepared to accept the topcoats required by this assessment. **Note:** This panel can be the same one which has been used throughout the paint accreditation assessment.
- Provide a vehicle or previously painted panel with a colour code or reference.
- Provide colour matching and colour retrieval equipment.
- Supply mixing and measuring equipment which is suitable for the task.
- Provide the equipment to carry out a viscosity check.
- Provide spray guns which contain the set ups for the products used within this task.
- Provide paint spraying equipment which is appropriate for this task.
- Provide equipment to dry and cure the basecoat and tinted clearcoat.
- Provide spray gun cleaning equipment which is appropriate for the products used
- Supply tools and equipment to rectify paint surface defects, such as dirt inclusions.
- Supply the appropriate disposal bins for different types of contaminated waste.
- Check and ensure the work areas are clean and free from contaminants.



ASSESSMENT RESULTS SHEET

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Technician's Name:

Registration Number:

Assessor's Name:

Date: / /

Start time:

Completion time:

Critical competences The candidate:	Achieved
Set up and wore the appropriate personal protective equipment. Comments:	
Consulted relevant technical information and ensure that ADAS systems are not affected by the refinishing processes. Comments:	
Identified the foundation and substrate material. Comments:	
Identified the correct colour and shade of the vehicle or panel. Comments:	
Prepared and mixed the basecoat and tinted clearcoat as stated by the paint manufacturer. Comments:	
Set up, adjusted and tested the spraying equipment. Comments:	
Applied the basecoat and tinted clearcoat to a number of spray out cards or a 'let down panel'. Comments:	
Identified the spray out card and the number of coats which matches the vehicle or the assessment panel. Comments:	
Applied the ground coat and mid/second coat and blended them into the adjacent areas, using the paint manufacturer's guidelines.	



Comments:	
Mixed the un-tinted clearcoat (if applicable) as stated by the paint manufacturer.	
Comments:	
Applied and faded out the clearcoat in accordance with the paint manufacturers guidelines.	
Comments:	
Checked the newly applied coatings for evenness and any surface defects.	
Comments:	
Cured the applied coatings as stated by the paint manufacturer.	
Comments:	
Rectified any minor surface defects, for example dirt inclusions.	
Comments:	
Disposed of waste materials safely and legally.	
Comments:	
Cleaned all the equipment.	
Comments:	
Returned and stored the tools, equipment, products and consumables in their appropriate place.	
Comments:	
Worked safely, obeying safe working practices throughout the assessment.	
Comments:	
Cleaned and left the work area safe on completion of the tasks.	
Comments:	
Completed the task in the allocated time (3.5 hours).	
Comments:	



Assessor comments:

Assessor's signature:

PASS / REFERRED

Assessor's PIN:

DRAFT