
Overview

This standard is about identifying substrates, mixing and applying of fillers and foundation materials to vehicles.

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Performance criteria

- You must be able to:
- P1 use the appropriate personal protective equipment when carrying out the preparation and application of foundation materials
 - P2 protect the vehicle and its contents effectively when carrying out the preparation and application of foundation materials
 - P3 support the preparation and application activities by reviewing:
 - P3.1 foundation materials data
 - P3.2 work instructions
 - P4 prepare, test and adjust all the equipment required, following manufacturer's instructions, prior to use
 - P5 apply the correct type of fillers and stoppers to rectify substrate defects, when necessary
 - P6 report any unrecorded damage to substrates and ancillary equipment to the relevant person(s) promptly and accurately
 - P7 mix all the foundation materials required following health and safety requirements and using:
 - P7.1 suitable compatible materials
 - P7.2 the approved method
 - P7.3 the approved equipment
 - P8 apply all the foundation materials required following health and safety requirements and using:
 - P8.1 the approved method
 - P8.2 the approved equipment
 - P9 dry and cure foundation materials following health and safety requirements and using:
 - P9.1 the approved method
 - P9.2 the approved equipment
 - P10 ensure the finished surface is suitable to accept the next process
 - P11 dispose of waste materials to conform with legal, environmental and workplace requirements
 - P12 leave tools, equipment and work environment in a clean and serviceable condition, as appropriate

P13 complete all preparation and application activities within the agreed timescale and to an agreed quality control process

P14 report any anticipated delays in completion to the relevant person(s) promptly

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Knowledge and understanding

You need to know and understand:

- K1 the health and safety legislation and workplace procedures relevant to workshop practices and personal and vehicle protection
- K2 the importance of disposing of waste safely in compliance with any relevant environmental procedures and the consequences of not doing so to the business, others and the environment
- K3 the importance of selecting, using and maintaining the appropriate personal and vehicle protective equipment when preparing and applying foundation materials
- K4 the vehicle work specification agreed
- K5 your workplace procedures for:
 - K5.1 the referral of problems
 - K5.2 reporting of delays to the completion of work
 - K5.3 the use of personal protection
- K6 the requirements for protecting the vehicle and contents from damage before, during and after preparing and applying foundation materials
- K7 the importance of working to agreed timescales and keeping others informed of progress
- K8 the relationship between time, cost and productivity
- K9 the importance of reporting anticipated delays to the relevant person(s) promptly
- K10 how to prepare, test and adjust all the equipment required for the preparation and application of foundation materials
- K11 how to select use and adjust measuring equipment, paint mixing and application equipment, heating and drying equipment (including spray booths), fume and dust extraction, air supply systems and air fed breathing apparatus
- K12 spray gun faults, their cause and their rectification
- K13 how to mix and prepare foundation materials
- K14 the properties of foundation materials
- K15 the factors affecting the choice and use of foundation materials
- K16 the principles of paint mixing and the importance of the right additive in the

- correct ratio
- K17 the curing and drying recommendations for various fillers and foundation materials
 - K18 how to find, interpret and use sources of information relevant to the mixing and application of foundation coatings
 - K19 how to condition and clean substrates prior to the application of foundation coats
 - K20 how to rectify substrate defects
 - K21 how to apply foundation coatings
 - K22 how to avoid application defects
 - K23 how to dispose of waste materials in compliance with any environmental requirements/legislation and workplace procedures
 - K24 how to work safely avoiding damage to vehicles, injury to yourself and injury to colleagues
 - K25 the importance of viscosity and its effect on the surface finish
 - K26 the importance of cleaning and using the correct foundation material to ensure adequate adhesion of the paint system
 - K27 the manufacturer's approved instructions for working when applying foundation materials
 - K28 the implications of rectification identified by an agreed quality control process

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