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## Overview

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

## 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 material data

P3.2 work instructions

P4 prepare, check 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 promptly and accurately report any unrecorded damage to substrates and ancillary equipment to the relevant person(s)

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

## Knowledge and understanding

### *You need to know and understand:*

K1the health and safety legislation and workplace procedures relevant to workshop practices and personal and vehicle protection

K2the 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

K3the importance of selecting, using and maintaining the appropriate personal and vehicle protective equipment when preparing and applying foundation materials

K4the vehicle work specification agreed

K5your workplace procedures for:

K5.1the referral of problems

K5.2reporting of delays to the completion of work

K5.3the use of personal protection

K6the requirements for protecting the vehicle and contents from damage before, during and after preparing and applying foundation materials

K7the importance of working to agreed timescales and keeping others informed of progress

K8the relationship between time, cost and productivity

K9the importance of promptly reporting anticipated delays to the relevant person(s)

K10how to prepare, check and adjust all the equipment required for the preparation and application of foundation materials

K11how 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

K12spray gun faults, their cause and their rectification

K13how to mix and prepare foundation materials

K14the properties of foundation materials

K15the factors affecting the choice and use of foundation materials

K16the principles of paint mixing and the importance of the right additive in the correct ratio

K17the curing and drying recommendations for various fillers and foundation materials

K18how to find, interpret and use sources of information relevant to the mixing and application of foundation coatings

K19how to condition and clean substrates prior to the application of foundation coats

K20how to rectify substrate defects

K21how to apply foundation coatings

K22how to avoid application defects

K23how to dispose of waste materials in compliance with any environmental requirements/legislation and workplace procedures

K24how to work safely avoiding damage to vehicles, injury to yourself and injury to colleagues

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K25the importance of viscosity and its effect on the surface finish

K26the importance of cleaning and using the correct foundation material to ensure adequate adhesion of the paint system

K27the manufacturer's approved instructions for working when applying foundation materials

K28the implications of not following an agreed quality control process

IMIVPR05

Apply fillers and foundation materials in an automotive environment



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