

Overview

This standard is about applying mastic asphalt and related materials to new and refurbishment contracts, operatives will need to consider the local weather conditions and temperature of the asphalt. Operatives may also be forming specialist details, so need to be aware of any specialist features of historic or listed buildings.

This standard will also involve interpreting information, adopting safe, healthy, and environmentally responsible work practices, selecting, and using materials, components, tools and equipment, minimising damage, and working within the allocated time, in accordance with organisational requirements which are equal to or exceed current statutory and legislative requirements.

This standard is for people working in the occupational area of mastic asphalt and can be used by operatives, supervisors, and managers.

Performance criteria <i>You must be able to:</i>	Interpretation of information	
	P1	interpret the information relating to the work and resources to confirm its relevance for the following: <ul style="list-style-type: none"> • drawings • specifications • schedules • risk assessments • method statements • oral and written instructions • manufacturer's information
	Safe work practices	
	P2	comply with the current legislation and official guidance to carry out the work, and maintain safe systems of work relating to the following: <ul style="list-style-type: none"> • methods of work • safe use of health and safety control equipment • safe use of access equipment and systems • safe use, storage and handling of materials, tools, and equipment • specific risks identified through a risk assessment or during work • specific risks to health including mental health and wellbeing
	Selection of resources	
	P3	select the correct quantity and quality of the following resources for the methods of work: <ul style="list-style-type: none"> • materials • components and fixings • tools and equipment
	Minimise the risk of damage	
P4	comply with organisational procedures to minimise the risk of possible damage to the work, its surrounding area, and environment by: <ul style="list-style-type: none"> • protecting the work and its surrounding area • maintaining a safe, clear, and tidy, work space • disposing of waste in accordance with site procedures and current legislation 	
Meet the contract specification		
P5	comply with the contract information to apply mastic asphalt and related materials to new or refurbishment contracts efficiently to the required specification by: <ul style="list-style-type: none"> • demonstrating work skills to: <ul style="list-style-type: none"> - prepare the area - cut materials to size - fit, apply, and position, where required - fit components • using and maintaining tools and equipment 	

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<p>Performance criteria <i>You must be able to:</i></p>		<ul style="list-style-type: none"> • applying mastic asphalt to working instructions for the following: <ul style="list-style-type: none"> - flat areas and surfaces with gradients - upstand details including outlets, pipes and downstands - specialist details including car park surfaces, expansion joint interfaces and mastic asphalt screeds (all types and thickness) - surface finishes including sand rubbed, crimped and solar reflective finishes
	<p>Approach to the work</p>	
	<p>P6</p>	<p>complete the work within the estimated and allocated time, in accordance with organisational procedures, the programme of work, and to meet the needs of others and the client</p>

Knowledge and understanding <i>You need to know and understand:</i>	P1 Interpretation of information	
	K1	why organisational procedures have been developed and how they are implemented
	K2	types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> • drawings • specifications • schedules • risk assessments • method statements • manufacturer's information • oral and written procedures for dealing with damaged and incorrect materials and resources • current legislation and regulations governing buildings
	K3	the importance of reporting and rectifying inappropriate information
	K4	the range of relevant digital services, tools, and systems, and how they are used
P2 Safe work practices		
	K5	information for current legislation and official guidance and how it is applied
	K6	the different types of fire extinguishers and how and when they are used in relation to: <ul style="list-style-type: none"> • water • CO2 • foam • powder
	K7	how emergencies should be responded to in accordance with organisational authorisation and personal skills, in relation to: <ul style="list-style-type: none"> • fires, spillages, injuries • emergencies relating to occupational activities • identification and reporting of asbestos containing materials
	K8	the organisational security procedures for tools, equipment, and personal belongings, in relation to: <ul style="list-style-type: none"> • operative • site • workplace • company • vehicles

		<ul style="list-style-type: none"> • customer • the general public • plant equipment
Knowledge and understanding <i>You need to know and understand:</i>	K9	how to report risks and hazards identified by the following: <ul style="list-style-type: none"> • methods of work • risk assessment • personal assessment • manufacturer’s technical information • statutory regulations • official guidance • Control of Substances Hazardous to Health (COSHH)
	K10	the accident and near miss reporting procedures and who is responsible for making the report
	K11	why, when, and how health and safety control equipment, identified by the principles of prevention should be used, in relation to: <ul style="list-style-type: none"> • collective protective measures • personal protective equipment (PPE) • respiratory protective equipment (RPE) • local exhaust ventilation (LEV)
	K12	how to comply with environmentally responsible work practices to meet current legislation and official guidance
	K13	the organisational procedures when dealing with potential accidents, health hazards, and the environmental impact, whilst working: <ul style="list-style-type: none"> • in the workplace • below ground level • in confined spaces • at height • on the highway • with tools and equipment including plant equipment and gas • with materials and hazardous substances • when moving and storing materials by manual handling and mechanical lifting
	P3 Selection of resources	
	K14	why the limitations, sustainability, and defects, associated with the resources are important, and how defects should be rectified
	K15	why the resources have been selected and how they are used

	K16	how to confirm the resources and materials conform with the specified task
Knowledge and understanding <i>You need to know and understand:</i>	K17	<p>how the resources should be used, and how any problems associated with the resources are reported in relation to:</p> <ul style="list-style-type: none"> • mastic asphalt • bitumen • adhesives • felts for temporary seals and flashings • solar protection • air and vapour control layers (AVCLs) • expanded metal lath • edge trims • gas • lime dust • rubbing sand • asphalt buckets • associated fixings and fittings • digital equipment • tools and equipment • temporary traffic management equipment
	K18	how to identify the hazards associated with the resources, and methods of work, and how they are overcome
	K19	methods of calculating the quantity, length, square meterage, and possible percentage of wastage, associated with the method and procedure to apply mastic asphalt
P4 Minimise the risk of damage		
	K20	how to protect work, its surrounding area, and the environment, from possible damage and the purpose of protection from general workplace activities, other trades, and adverse weather conditions
	K21	how to minimise damage to existing building fabric
	K22	<p>why and how, the safe disposal of waste must be carried out in accordance with the following:</p> <ul style="list-style-type: none"> • environmental responsibilities • organisational procedures • manufacturer's information • site guidance
	K23	why it is important to maintain a safe, clear, and tidy, work space

<p>Knowledge and understanding <i>You need to know and understand:</i></p>	P5 Meet the contract specification	
	K24	<p>how to meet the contract specification in relation to the following:</p> <ul style="list-style-type: none"> • how to apply mastic asphalt to flat areas and surfaces with gradients • how to apply related materials including: <ul style="list-style-type: none"> - air and vapour control layers (AVCLs) - isolating membranes - primers - solar reflective paints - felt flashings for seals - insulation - ballast • how to utilise mastic asphalt plant and equipment including: <ul style="list-style-type: none"> - mixers - cauldrons - hot charges - gas and gas torches • how to form: <ul style="list-style-type: none"> - kerbs - edges - outlets - upstands - downstands - pipes - trims - openings - gutters and felt flashing • why it is important to use gas in accordance with manufacturer's instructions and official guidance • how to apply specialist details including mastic asphalt screeds, expansion joints and interfaces • the importance of constraints relating to applying mastic asphalt on historic and listed buildings • why it is important to identify and follow the installation quality requirements • when to seek specialist advice • the limits of your own authority • how to work with, around, and in close proximity, to plant and machinery • how to work at height • how to use access equipment and systems • how to use tools and equipment • how and why operative care and maintenance of tools and equipment is carried out

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		<ul style="list-style-type: none"> • how to use temporary traffic management equipment and systems
	K25	the importance of teamwork and communication
	K26	the importance of mental health awareness and wellbeing
	K27	the importance of applying fairness, inclusion, and respect, (FIR) when dealing with others
	K28	the needs of other trades associated with applying mastic asphalt
	P6 Approach to the work	
	K29	the programme of work to be carried out, including the estimated and allocated time, and why deadlines should be kept

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