



Overview

This standard addresses the competence required to apply sheet veneers for use in furniture manufacture. This involves:

- 1 preparing equipment and materials for applying veneers
- 2 applying veneers to surfaces
- 3 working in ways which maintain your own and others' safety

Performance

criteria

- You must be able to:
- P1 organise the materials, tools and equipment you will need so that you can work effectively and keep your work area tidy
 - P2 check that you have the required work specification and that everything you need to achieve it is available
 - P3 check that adhesives are in date before using them
 - P4 prepare surfaces to receive the veneer, making sure that they are free of irregularities, defects, dust and debris
 - P5 follow manufacturer's instructions when preparing the adhesives
 - P6 maintain adhesives in the required condition for use until needed
 - P7 follow safe working procedures when lifting and moving heavy items
 - P8 follow health and safety procedures when handling adhesives and de-greasing agents
 - P9 return unused adhesives and de-greasing agents to the designated storage areas
 - P10 dispose of wastes safely using designated procedures and disposal areas
 - P11 complete the preparations within the required time
 - P12 check that the adhesives and core are in the required condition before starting work
 - P13 apply the adhesive evenly and to the required thickness
 - P14 set up the pressing equipment so that the required pressure and temperature will be applied and the specified cycle followed
 - P15 control the pressing process so that the results meet the specified quality
 - P16 handle the veneers and cores in ways which avoid damaging them
 - P17 deal promptly with any equipment problems and pressing faults that arise, reporting any which you cannot solve
 - P18 follow safe working procedures when setting up and operating veneering equipment
 - P19 accurately trim and cut veneered panels to the required size
 - P20 check and confirm that the veneered surfaces meet the specification before passing them on
 - P21 transfer completed items to the designated storage location



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- P22 return unused adhesives to the designated storage areas
 - P23 dispose of wastes safely using designated procedures and disposal areas
 - P24 complete the process within the required time

Knowledge and understanding

You need to know and understand:

- K1 the meaning of terms used in technical specifications for veneering
- K2 why different surfaces require different preparations and the consequences of inadequate preparation
- K3 the importance of seasoning regarding contraction, expansion and moisture content
- K4 why and when it may be necessary to use de-greasing agents to ensure adhesives will take
- K5 the different sort of adhesives that are used and the consequences of not preparing them properly
- K6 the implications for the preparation process of the pot life, shelf life, open time and curing time of adhesives
- K7 the implications for your work of the relevant regulations, including where to find out about relevant risk assessment and control measures that have been set by your organisation
- K8 why it is important to handle and store adhesives and de-greasing agents in line with specified procedures
- K9 how to dispose of waste in accordance with current legislation
- K10 the meaning of terms used in technical specifications for veneers
- K11 the different types of cramp available and their purpose
- K12 the consequences of using incorrect temperature, pressure or cycle times
- K13 the handling characteristics and effects of pressing different types of veneers
- K14 how to protect them from damage during pressing and storage
- K15 the kind of faults can occur when applying veneers, how to recognise them and what can be done to overcome them
- K16 what causes veneers to become discoloured and what can be done to prevent this
- K17 quality checks that should be carried out on veneers and what the implications are of passing on work that does not pass the checks

Additional information

Scope

Adhesives

There are a range of commercially available adhesives in use in furniture manufacture. Most require some form of preparation, including mixing to a specified viscosity and heating to a required working temperature. The handling, storage and disposal of wastes will all be covered by procedures put in place following risk assessments under the regulations.

Equipment

The machine equipment used within furniture manufacturing environments for applying veneers. This includes single and multi-press machines and mechanical adhesive spreaders. Pressing may be done using hot or cold cramps. Adhesives may also be applied using manual or mechanical spreaders.

Equipment problems

These relate to non-functioning, missing or damaged equipment or equipment parts. The person carrying out this work would be expected to deal with any equipment problem for which maintenance engineers are not required. Where a problem does require a maintenance engineer, the person would be expected to report the problem to a more senior person.

Surfaces

The surface of the furniture item which is to be veneered. Surfaces need to be prepared so that the veneer can be firmly bonded. The kind of preparation will depend on whether the surface is made of natural timber or wood composite and on the type of adhesive and pressing to be carried out. Typical preparations will include keying, sanding, toothing and de-greasing.

Veneers

Veneers used in furniture manufacture are made of natural timber and may be of feather, burr, flame or crown designs. Typical timbers would include walnut, mahogany, cherry, pine.

Veneer pressing faults

The kinds of faults which can occur are blisters, glue penetration, misalignment or marking. The person carrying out this role is responsible for identifying and making minor repairs where these can be achieved without affecting the quality of the work. Problems which cannot be resolved in that way would be reported



using the correct workplace procedures.

Work specification

The set of instructions which describe the work to be carried out, including details of the qualities of the veneer to be used and the moisture content. The specification will also detail the choice of adhesive, the type of pressing and the time within which the veneering process must be completed.

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