

Z20 FIXINGS/ADHESIVES

To be read with Preliminaries/General conditions.

- 110 **FIXING GENERALLY:** Use fixing and jointing methods and types, sizes, quantities and spacings of fasteners which are suitable having regard to:
- Nature of and compatibility with product/material being fixed and fixed to,
 - Recommendations of manufacturers of fasteners and manufacturers of components, products or materials being fixed and fixed to,
 - Materials and loads to be supported,
 - Conditions expected in use,
 - Appearance, this being subject to approval.
- 130 **FASTENERS** for materials and components:
- Forming part of external construction but not directly exposed to the weather to be of corrosion resistant material or have a corrosion resistant finish.
 - Directly exposed to the weather to be of corrosion resistant material.
- 140 **FIXING THROUGH FINISHES:** Ensure that fasteners and plugs (if used) have ample penetration into the backing.
- 150 **PACKINGS:**
- Provide suitable, tight packings at fixing points to take up tolerances and prevent distortion.
 - Use noncompressible, rot proof, noncorrodible materials positioned adjacent to fixing points.
 - Ensure that packings do not intrude into zones that are to be filled with sealant.
- 160 **CRAMP FIXING:**
- When not specified otherwise, position cramps not more than 150 mm from each end of frame sections and at 600 mm maximum centres.
 - Secure cramps to frames with matching screws as masonry work proceeds, and fully bed in mortar.
- 230 **PELLETING:** Countersink screw heads 6 mm below timber surface and glue in grain-matched pellets not less than 6 mm thick, cut from matching timber. Pellets to occupy the whole depth of the holes and be finished off flush with surface.
- 250 **POWDER ACTUATED FIXING SYSTEMS:**
- Do not use without approval.
 - Tools to be to **BS 4078:Part 2** and Kitemark certified, and used in accordance with BS 4078:Part 1. Operatives to be trained and certified as competent by tool manufacture &r.
 - Fasteners, accessories and consumables to be types recommended by the tool manufacturer.
 - Ensure that operatives take full precautions against injury to themselves and others.
 - Remove all unspent cartridges from the site when no longer required.
 - Apply zinc rich primer to heads of fasteners used externally, in external walls or in other locations subject to dampness.
 - Use top hat section plastics washers to isolate cartridge fired nails from stainless steel components fixed externally, in external walls or in other locations subject to dampness.
- 510 **ADHESIVES:**
- Adhesive types: As specified in the relevant section.
 - Surfaces to receive adhesive to be sound, unfrozen, free from dust, grease and any other contamination likely to affect bond. Where necessary, clean surfaces using methods and materials recommended by adhesive manufacturer.
 - Adjust surface regularity and texture as necessary to suit bonding and gap filling characteristics of adhesive.
 - Ensure that operatives observe manufacturer's and statutory requirements for storage and safe usage of adhesives.

- Do not use adhesives in unsuitable environmental conditions or beyond the storage period recommended by the manufacturer.
- Apply adhesives using recommended spreaders/applicators to ensure correct coverage. Bring surfaces together within recommended time period and apply pressure evenly over full area of contact to ensure full bonding.
- Remove surplus adhesive using methods and materials recommended by adhesive manufacturer and without damaging surfaces.