

# MEGASTRENGTH<sup>®</sup> TECHNICAL DATA SHEET

## DESCRIPTION

MEGASTRENGTH 5 MINUTE POLYURETHANE ADHESIVE is a professional quality one part moisture curing wood adhesives with rapid setting properties.

As well as bonding No More Ply<sup>®</sup> and sealing joints, MEGASTRENGTH will also bond the following to porous surfaces:

- Wood (hard, soft, exotic, painted)
- Formica
- Polystyrene
- PU foam
- Metal and glass wool
- Various plastics (including PVC)
- Stone, concrete, brick and masonry.



## BENEFITS

- Fast (5 min) setting (Typical PVA based adhesive – 8-12 hours).
- Exceptional bond strength to No More Ply, wood and most common building surfaces.
- Internal and external use - excellent weathering and aging properties.
- Fully water proof to EN204 D4, including seawater.
- Products foam slightly on application to fill joints/gaps and increase overall bond strength. Excellent Chemical Resistance.

## AREAS FOR USE

Megastrength is designed primarily for bonding No More Ply boards to the substrate and joint reinforcing/waterproofing. However it can also be used in the following applications:

- General wood jointing and construction
- Window and door frame manufacture
- Door manufacture
- Furniture manufacture
- Boat building
- Construction of staircases and ladders
- As a high quality insulation adhesive for foam/glasswool/fibre-boarding

## LIMITATIONS

- At least one of the surfaces to be bonded must be porous.
- Not suitable for polyethylene, polypropylene, Teflon or Nylon.
- Surfaces may be damp, but moisture content of wood must not exceed 30% w/w.
- As product expands slightly on curing, do not use on sheet laminate.
- Only apply between + 5 and + 30°C.
- Ensure surfaces are always held in place while curing.
- Setting times will be increased at low temperatures and low humidity.

## SURFACE PREPARATION

The surfaces to be glued should be clean and free from dust, grease and other contaminants. At least one of the materials must be porous. Roughen non-porous surfaces to give a key for the adhesive. To assist cure and achieve maximum bond strength, slightly moisten one surface with a damp cloth. Do not over wet.



**APPLICATION**

Cut tip of cartridge taking care not to damage the thread. Fix nozzle, cut to required aperture and apply using standard sealant gun.

Wearing of gloves is recommended. Apply adhesive evenly to one surface. Assemble parts IMMEDIATELY and clamp for duration of cure (5-30 minutes at 20°C; longer at lower temperatures). After this time, the joint may be easily handled. Full and final bond strength will be achieved after 30 minutes.

NOTE: These products foam slightly on application to fill small gaps. Any excess foam/adhesive must be removed with acetone before the product sets or with a sharp chisel once set.

**SPECIFIC DATA**

<b>COLOUR</b>	Gels: Translucent; Liquid: Caramel/brown
<b>CONTENTS</b>	100% prepolymers and catalyst (solvent free)
<b>SOLIDS</b>	100% (solvent free)
<b>VISCOCITY</b>	200 x10 <sup>3</sup> mPa.s (bflD RVT sp7 5rpm) (gel)
<b>COVERAGE</b>	400g/m <sup>2</sup>
<b>INITIAL SET TIME</b>	5 or 30 minutes, depending on product
<b>FLASH POINT</b>	N/applicable
<b>CLEANER</b>	Acetone BEFORE Curing. After cure, use mechanical abrasion.

**STORAGE**

Store in original unopened containers between 10 and 25°C. Reseal immediately once used or disposal will be necessary

**SHELF LIFE**

Twelve months from date of manufacture in original unopened containers.

**HEALTH AND SAFETY**

Consult MSDS for full list of hazards