

# **NIGHTINGALE SUPPLY**

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## **TECHNICAL DATA SHEET**

# **GRASP GP 41**

### **Professional Wood Adhesive**

- **DESCRIPTION:**

Is a waterborne synthetic resin dispersion type adhesive designed for the woodworking/furniture industry for timber assembly work (ie rubbed joints, dowelling, laminating, pattern making, veneering, pressing). It features high strength, quick development of bond and non-staining of timbers. It is particularly suitable for use with soft timbers, chipboard, ordinary mdf and hardboard. Can also be used with paper and paperboard. This adhesive complies to AS 2754-2, types 4, 5 standard. D2 Classification.

- **SPECIFICATION:**

APPEARANCE:	WHITE MILKY LIQUID
VISCOSITY @ 25°C	MEDIUM FLUID (5,500 ± 500 cps)
SG:	1.07 ± 0.05
CLEANING/DILUTING AGENT:	WATER
PH:	SLIGHT ACIDIC (4.0 - 5.0)
MIN. TEMPERATURE OF CURE:	8°C
OPEN ASSEMBLY TIME:	8-10 MINS
MIN. PRESS TIME (5KP/CM):	20 MINS
SHELF LIFE:	12 MONTHS

- **APPLICATION:**

Timber surfaces to be glued should be clean, dry and free of oil, grease etc. Where practicable, light sanding is recommended before gluing. Joints should be close fitting. Timber moisture content should be in the range of 7-10%

Glue may be applied by brush, roller or squeeze bottle. Where practicable, apply to both surfaces of the joint. Recommended spread rate 3-5 square metres of glue line per litre of adhesive. Avoid use of metal containers or utensils as timber staining may result.

- **ASSEMBLY TIME:**

Is the period between spreading the glue and the application of pressure. Permitted assembly time will depend on the type and moisture and content timber, and on ambient temperatures and humidity. Open assembly time, where the spread surfaces are left exposed, should not exceed three (3) minutes under moderate conditions (21 c).

Closed assembly time where the spread surfaces to be bonded are brought together but are not under pressure, should not exceed ten (10) minutes under moderate conditions.

At higher temperatures the permitted assembly time will be reduced. Under all conditions, the glue line must not be allowed to dry out before the application of pressure.

The presence of glue squeeze out after pressure is applied, generally indicates that permitted assembly time has not been exceeded.

- **CLAMPING:**

Apply sufficient pressure to ensure close contact between the joint surfaces with some glue squeeze out. Minimum recommended pressures are 50 psi for softwood and 100 psi for hardwoods.

Required clamping time will vary with ambient conditions, type and moisture content of timber. Typical clamping times at 21 C are 20-30 minutes for softer, less dense timbers and 40-50 minutes for hardwoods.

Clamping times for stressed assemblies should be increased under all conditions, pressure should be maintained until small beads of glue 'squeeze out' have dried clear.

For maximum bond strength, overnight drying is recommended.

- **CLEAN UP:**

Where necessary, wipe excess glue from the joint with a clean damp cloth.

- **STORAGE:**

store out of direct sunlight in sealed plastic containers. this product will store for 12 months in a cool factory area.

- **PACKAGING: 500ml, 1 litre, 4 litre, 20 litre, 200 litre**

The information presented is believed to be accurate, however, no guarantee is implied or given. User should conduct their own testing to determine the suitability of any product for a particular purpose.