



Technologies

TECHNICAL INFORMATION GRIPIT 5814

DESCRIPTION

GRIPIT 5814 is a waterborne synthetic resin single pack, self crosslinking adhesive designed for the woodworking industry, in applications such as lap joining, dowelling, laminating etc. This product is suitable for all types of timbers and is featuring quick bond development, high strength, non-staining of timber, no pre-mixing, long shelf life and the option of curing under ambient or hot-press conditions. **GRIPIT 5814** complies with AS-2370 types I and II.

TYPICAL PHYSICAL PROPERTIES - APPLICATION AND HANDLING

Material Base	:	Synthetic Resin.
Viscosity (@ 20°- 25°C)	:	Medium fluid (4,000 ± 1000 cps).
pH	:	Acidic.
S.G.	:	1.05 - 1.15.
Colour (1)	:	White.
Odour (1)	:	Slight.
Shelf Life	:	6 months.
Cleaning / Diluting Agent	:	Water.
Minimum Curing Temperature	:	8°C.
Application Method	:	Brush, squeeze bottle, syringe, roller.
Adhesive spread	:	150-200 gsm depending on condition of the timber surface.
Workshop, Timber & Adhesive Temperature (Preferable)	:	15°C min.
Timber moisture content (Preferable)	:	8 - 12 %.
Open assembly time (200gsm, 70% RH,20°C)	:	8 - 10 mins.
Minimum pressing time	:	20 mins.
With hard-dense timbers	:	longer
(Solid soft timber @ 5kp/cm2)	:	pressing would be required.

(1) *Relative values*

CURING

GRIPIT 5814 is cured by water dissipation and crosslinks under ambient conditions to a firm very water resistant bond. Cure will be optimised when the adhesive interphase is at moisture equilibrium, which in most situations takes approximately seven days to achieve and is directly dependant on factors such as substrate and adhesive mass, timber density and moisture content and prevailing ambient conditions.

Cure can be accelerated by hot pressing and water resistance is further increased by thermocuring after mixing with Catalyst number 10 at a rate of 1% w/w. Recommended thermocuring cycle is as follows:

- 30 secs at 80°C.
- 30 secs at 130°C.

(1-2mm timber veneer to solid timber or chipboard, timber moisture 8-12%, adhesive spread rate 150-200 gsm, pressure 4 -5 kp/cm²).

The shelf stability of catalysed product under ambient conditions is approximately four weeks. Ensure adhesive is homogenous before use. Application from plastic, stainless steel, or chrome-plated containers is recommended. After use, brushes, rollers, glue baths, and other equipment should be washed with water before the adhesive dries out.

CHARACTERISTICS OF CURED ADHESIVE

Appearance	:	Water-clear, translucent.
Residual Odour	:	Nil.
Flexibility (1)	:	Minimal.
Shear strength	:	High (4 - 5 N/mm ²).
Water resistance	:	B bond - AS-1321.

(1) *Relative values*

STORAGE DIRECTIONS

Keep containers closed when not in use. Store indoors under ambient conditions. Do not leave metal-bound brushes immersed in the adhesive overnight.

PRECAUTIONS

Refer to the material safety data sheet (MSDS) before handling the product. Follow instructions for safe handling.

TECHNICAL SERVICE

Henkel Adhesives maintains a strong technical support group to investigate and advise on all adhesion matters. Please contact your local Sales Office.

DISCLAIMER

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