

Technical Information

Mitrelock® Mitre Bond Kit Improved Formulation

The Mitrelock® Mitre Bond Kit is designed for woodworkers, cabinetmakers, and DIY enthusiasts who prioritise speed and precision. The perfect joiners mate, combining a powerful instant mitre bond adhesive with a **DMPT-free** aerosol activator, it locks in seconds. The updated formulation offers improved safety without compromising on performance.

A classic toolbox combo for every mitre joint, meet your new best mate: rapid bond glue and accelerator that locks it in – clean, strong, and clamp-free. Every mitre joint needs a mate!

This kit's instant bonding capability allows for quick and seamless assembly, making it ideal for fast-paced work environments. Eliminate the need for lengthy curing times and clamps – this system enables swift transitions from assembly to finishing.

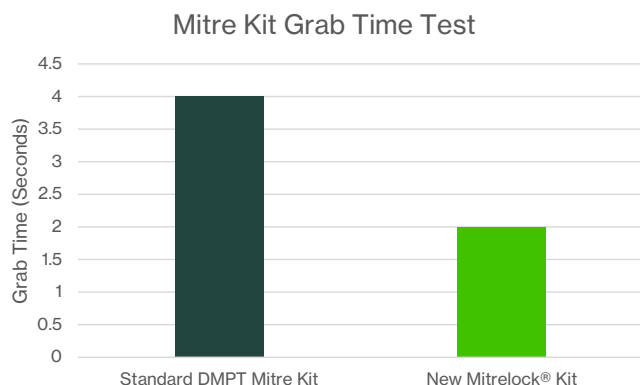
- ▶ **New Enhanced** Instant Bond Formulation
- ▶ **Longer Activation** Life on Part
- ▶ Suitable for **Outdoor & Indoor** Use
- ▶ **Easy to Use** - 3 Simple Steps
- ▶ Final Bond **Stronger Than Wood**
- ▶ **LOCKS IN SECONDS!**

Safety and Environmental Considerations

The Mitrelock® activator is formulated without DMPT, ensuring a safer and cleaner application process. This reduces exposure to potentially harmful chemicals while maintaining high-performance standards – an excellent choice for modern woodworking safety requirements.

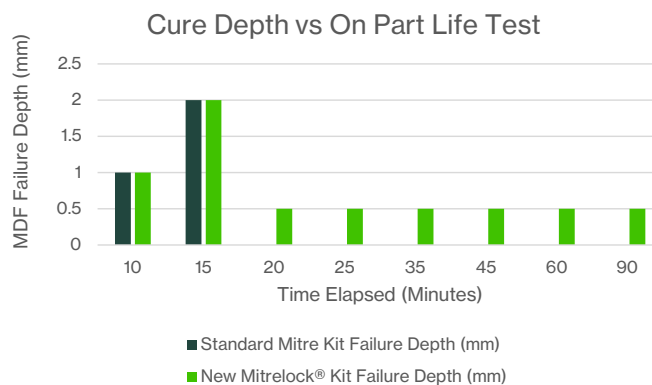
Grab Time Test

An MDF block was uniformly coated with an activator spray for a duration of 2 seconds. After a 10-minute interval, approximately 3 mm thick bead of mitre kit adhesive was applied to an adjacent MDF block. The samples were held in contact under firm pressure for 10 seconds. Immediately thereafter, the samples were forcibly separated. Ambient conditions during testing were maintained at a relative humidity of 57–61% and a temperature of 17–18°C.



Depth of Cure vs On Part Life

An MDF block was uniformly coated with mitre kit activator spray for a duration of 2 seconds. After a timed interval, approximately 3 mm thick bead of mitre kit adhesive was applied to an adjacent MDF block. The samples were held in contact under firm pressure for 10 seconds. Immediately thereafter, the samples were forcibly separated. Ambient conditions during testing were maintained at a relative humidity of 57–61% and a temperature of 17–18°C.



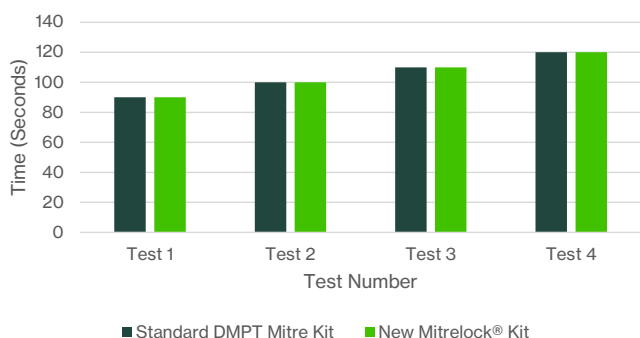
Evaporation vs Mass Dispensing

Mitre Bond Kits such as Mitrelock® utilise a solvent carrier to deposit the primary active ingredient onto the substrate to be bonded. The Mitrelock activators effective application minimises product wastage, the newly formulated activator reduces excess mass dispensed by 20% compared to DMPT alternatives. Over wetting the surface can lead to reduced adhesion performance. A single, controlled spray is enough to achieve optimal activation.

Evaporation Time Test

Time measured for complete evaporation from surface.
Conditions 15.1C RH71.1%.

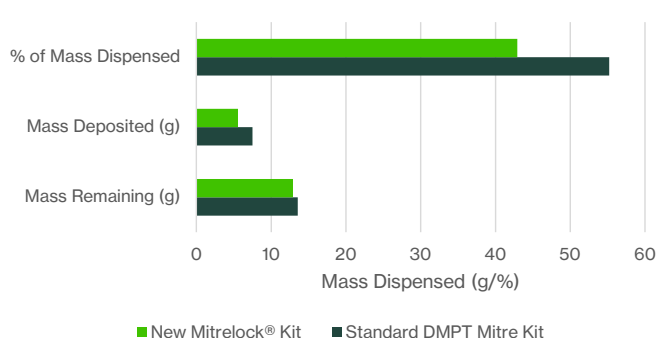
Activator Evaporation Time Test



Mass Dispensing Test

Activator sprayed for 10 secs, aerosol weighed before and after each test. Conditions: Temperature 16.0oC, RH 60.0%.

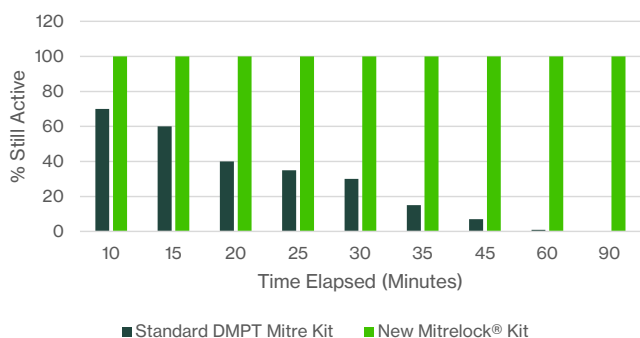
Activator Mass Dispensing Test



On Part Life Test

MDF samples were aerosol-sprayed for 2 seconds to uniformly cover the surface. Approximately 3 mm diameter bead of mitre kit adhesive was applied to a second MDF sample following the specified elapsed time. The samples were held in contact under firm pressure for 10 seconds. Immediately thereafter, the samples were forcibly separated. Ambient conditions during testing were maintained at a relative humidity of 57–61% and a temperature of 17–18°C.

Activator On Part Life Test



Bonding Made Easy: 3 Simple Steps



Step 1. Activator

Spray Activator on to one surface and allow to dry.



Step 2. Adhesive

Apply Adhesive to the other surface.



3. Assembly

Assemble parts. **LOCKS IN SECONDS!**

General Information

For information on safe handling of this product consult the Safety Data Sheet (SDS).

Storage

Store in a cool area and out of direct sunlight.

Disclaimer

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