



Australian Panels: Structapanel H2 benchmarking with HB Fuller construction adhesives.

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AIM/OBJECTIVE:

Benchmark the adhesive performance of selected HB Fuller adhesives on Structapanel H2 12mm timber flooring underlay.

BACKGROUND:

Australian Panels have requested HB Fuller benchmarking the adhesive performance of selected HB Fuller adhesives on their timber underlay product, Structapanel H2.

SAMPLES/SUBSTRATES:

Substrate:

- Structapanel H2 12mm timber flooring underlay (submitted by Australian Panels)

HB Fuller Adhesives:

- Maxbond Flexi-Floor timber flooring adhesive
- Floorbond XMS timber flooring adhesive
- Floorbond XMS Subfloor adhesive

METHOD:

The substrate will be brushed clean of any loose material, dirt and particulates prior to adhesive application to ensure a dust-free surface is bonded.

The substrate will not be sanded or otherwise prepared prior to adhesive application.

The adhesives will be applied to the substrate and allowed to cure for 7 days @ 23°C / 50% RH. After 7 days adhesive properties will be assessed.

**RESULTS & DISCUSSION:**

Adhesive compatibility testing result are shown below in Table 1:

Adhesive	Adhesive Performance	Failure Mode
Maxbond Flexi-Floor	5 (Excellent)	100% adhesive cohesive
Floorbond XMS	5 (Excellent)	100% adhesive cohesive
Floorbond XMS Subfloor	5 (Excellent)	100% adhesive cohesive

Table 1: Structapanel adhesive benchmarking results.

Maxbond Flexi-Floor, Floorbond XMS and Floorbond XMS Subfloor recorded excellent adhesive performance to the Structapanel H2 substrate, with 100% adhesive cohesive failure recorded by all tested adhesives.

This adhesive performance was achieved on un-sanded substrate, therefore HB Fuller can advise that sanding is not required when using HB Fuller adhesives in order to achieve satisfactory adhesive properties.

CONCLUSIONS:

Maxbond Flexi-Floor, Floorbond XMS and Floorbond XMS Subfloor recorded excellent adhesive properties to unsanded Structapanel H2 12mm timber flooring underlay and can be proposed for use.