

PRODUCT ADHESION TEST REPORT

Date: 28th March 2023
Substrate Tested: 12mm Structapanel H2
Tested Report by: Anthony Leach 0439 710 602

Purpose:

The purpose of the test is to determine the adhesion characteristics and performance of the Selleys Liquid Nails Timberflex Flooring Adhesive on the supplied sample of 12mm Structapanel H2.

The results required in this test is to ensure that there is cohesive failure on the substrate to ensure a strong bond and seal.

Selleys Liquid Nails Timberflex Flooring Adhesive was chosen as the adhesive best suited to the application as described by Australian Panel Products.

Adhesives / Products tested:

Description	Technology	Colour	Density	Shelf Life
Selleys Liquid Nails Timberflex Flooring Adhesive	Sil-X® Advanced Polymer	Oak	1.52	12 months

See - <https://www.selleys.com.au/products/adhesives/flooring-adhesives/selleys-liquid-nails-timberflex-timber-flooring-adhesive/>

Procedure:

The substrate was supplied by Australian Panel Products and tested without sanding.

The Selleys Liquid Nails Timberflex Flooring Adhesive was then laid onto the substrate, trowelled and left to cure for 6 days after initial application on 10/03/2022.

A bead of the adhesive was also laid as part of the process to carry out the destructive peel test.

Once cured, a destructive peel test is conducted to determine the adhesion performance of the adhesive material.

Table of Results:

TEST	Substrate	Adhesion Result	Comments
Selleys Liquid Nails Timberflex Flooring Adhesive	12mm Structapanel H2	Very High	Cohesive Failure

- **Cohesive Failure** is where the sealant/adhesive has a bond strength to the substrate that is greater than the internal strength of the sealant/adhesive and tears within itself.
- **Adhesive Failure** is where the sealant/adhesive has very low or no adhesion to the substrate.
- **Substrate Failure** is observed when the face of the substrate itself destructs, meaning that the adhesion to it far greater than the substrate integrity.

Low = Minimal strength to remove from substrate. In either a vertical or horizontal movement.

Medium = Average strength to remove from substrate. Usually peel away from substrate.

High = High Adhesion, leaving some residue.

Very High = Sealant Fails before giving away from substrate.

Conclusion:

The Selleys Liquid Nails Timberflex Flooring Adhesive displayed excellent adhesion to the supplied sample of 12mm Structapanel.

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