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Cross cut adhesion test to Abodo timber section. 12/1/24

Purpose of this test was to provide the indicative adhesion performance of Remmers coatings to 'Abodo' timber samples provided by Timbmet. Abodo is a trade name of thermally modified Radiata Pine. Remmers product OW-815 clear was selected for the purpose of this test.

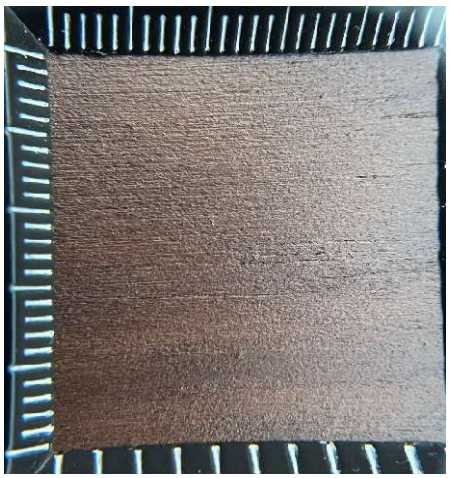
The sample timber section was mechanically sanded with 120grit prior to application.

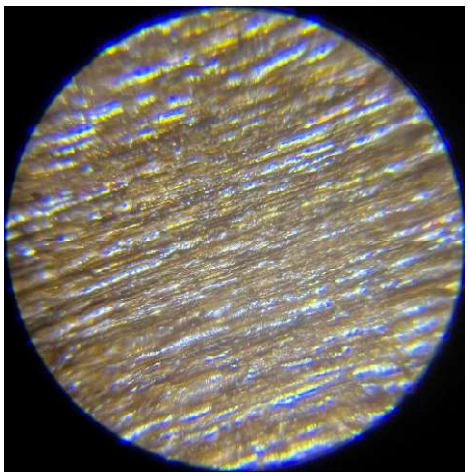
- 1st coat – OW-815 at approx. 75µm
- Lightly de-nibbed between coats with 240grit
- 2nd coat – OW-815 at approx. 75µm

All coatings applied by brush

(technical data sheets to accompany this document)

When viewed under magnification, the coating appears sound with good flow into any open pores of the timber.





The Abodo timber sample was left for 1 week after coating, before testing was carried out.

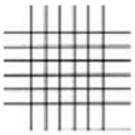
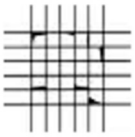
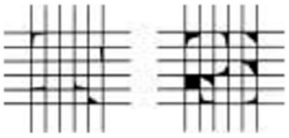
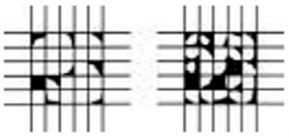
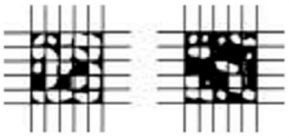
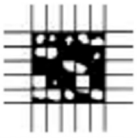
Three separate cross hatched area were tested. Cross hatched on dry coating / cross hatched on wetted area / cross hatched then wetted. For the purpose of this indicative test, wet paper towels applied for 3 hours. The cross cut adhesion test was carried out with 2mm spacings and tape with an adhesion to steel rating of 4.3N/cm



Delamination along edges or at intersections is evident due to the weakness in timbers surface structure. (common with thermally modified timber). ISO class 2/3.

Summary

All cross hatched areas have adequate adhesion results with no excessive detachments of concern. Providing the Remmers coating system is adhered too, there is little cause for concern and comparable to coating other cladding timbers. External long exposure weather testing is now recommended.

ISO Class: 0/ASTM Class: 5B The edges of the cuts are completely smooth; none of the squares of the lattice is detached.	
ISO Class: 1/ASTM Class: 4B Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut area not significantly greater than 5% is affected.	
ISO Class: 2/ASTM Class: 3B The coating has flaked along the edges and/or at the intersections of the cuts. A cross-cut area significantly greater than 5%, but not significantly greater than 15%, is affected.	
ISO Class: 3/ASTM Class: 2B The coating has flaked along the edges of the cuts partly or wholly in large ribbons, and/or it has flaked partly or wholly on different parts of the squares. A cross-cut area significantly greater than 15%, but not significantly greater than 35%, is affected.	
ISO Class:4/ASTM Class: 1B The coating has flaked along the edges of the cuts in large ribbons, and/or some squares have detached partly or wholly. A cross-cut area significantly greater than 35%, but not significantly greater than 65%, is affected.	
ISO Class: 5/ASTM Class: 0B Any degree of flaking that cannot even be classified by classification 4.	

Kind Regards
Craig Lovatt
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