

TSR 17-T495B WANZ SEALANT TESTING SELLEYS SMALL JOINT SEALANTS

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| Date | 29.September 2017 |
| Requestor | Phil Crabbe Business Development Manager -Selleys |
| Test Laboratory | Dulux Powder Coatings R&D laboratory Glenfield On behalf of the Windows Association of New Zealand. |
| Summary Report by | Konrad Welte Technical Services Manager, Dulux Powder Coatings, Glenfield, Auckland. |
| Scope | Selleys requested a full testing of Selleys Small Joint Sealants. |
| Standard Reference | WANZ Voluntary Standards for Components used in Residential Aluminium Window Systems |
| Material Description | Selleys Small joint sealants EA03874HC5 and EAO3874HC4. |
| Cleaning Medium | Selleys Poly Wipes |
| Panel Preparation | WANZ specified architectural powder coating colours, anodised aluminium extrusion and milled aluminium extrusions were wiped with Selleys Poly wipes and allowed to dry. Selleys small joint sealants EA03874HC5 and EAO3874HC4 were applied with a cartridge caulking gun and allowed to set for 7 days at ambient temperature before testing commenced. |

| WANZ test method | Performance Rating | Test Result –Test observation |
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| Basic Visual Screening | No surface cracks, bond loss, staining or vehicle bleed | PASS – No signs of loss of integrity or cracking |
| Hardness Evaluation | Shore Hardness shall not exceed “70” | PASS- Shore Hardness <60 |
| Peel Adhesion (Mill Finish) | At least 90 % cohesive failure both prior and after water immersion | PASS –no cohesive failure |
| Peel Adhesion (Anodised finish) | At least 90 % cohesive failure both prior and after water immersion | PASS -no cohesive failure |
| Peel Adhesion (Powder Coated Finish) | At least 90 % cohesive failure both prior and after water immersion | PASS –minor cohesive failure |
| Water Resistance | No softening or other obvious effects | PASS –No obvious effect |
| Durability | Minimum Durability of 15 years expected | PASS- QUV – B 300 hours. |
| Slump | Maximum Sag of 2.5 mm | PASS- Slump less than 2.5 mm |
| Compatibility with other sealant | Back and Small Joint sealant to be compatible | PASS –Complete recovery to full hardness and adhesion. |
| Vehicle Migration | No migration from edge of compound | PASS- No sealant movement away from the edge |
| Racking | No cohesive breaks or loss of adhesion | PASS- No sealant break |

CONCLUSION

Selleys small joint sealants EA03874HC5 and EAO3874HC4 used in combination with Selleys Poly Wipes as a cleaner to prepare the tested surfaces have passed all test requirements as set out in the WANZ Voluntary Sealant Standard.

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