SOUDAL

Adhesives • Sealants • Technical Products

Testing Report

Date 22 March 2023

Company DriSpace Ltd

Products Tested

Supplied by Drispace	Supplied by Soudal	Soudal Code
Wrap: DriStud Wall Wrap	Gorilla MS Sealant	20600
Wrap: DriStud REPEL	Gorilla Plumbers Silicone	19305
Wrap: ProctorPassive Wraptite SA	Gorilla Fix All Flexi	20322
Wrap: ProctorPassive Wraptite UV-SA	Gorilla 940FC Sealant	20069
Wrap: ProctorPassive SmartVap	Soudaseal Firestop MS Sealant	56219
Wrap: ProctorGeo Vap 120	Soudaseal 240FC	20101
	Gorilla BlackJack Bituminous Sealant	19926
Tape: DriStud Cool Window Flashing	Gorilla PRO Expanding Foam	20088
Tape: DriFlash Tape	Gorilla FLEXI Expanding Foam	20041
	Gorilla Fire Rated Expanding Foam	20160

Purpose of testing:

- Determine adhesion and sealing capabilities of various Soudal Sealants and Expanding Foams used in the installation of window and door frames in both residential & commercial building projects with DriSpace products.
- Determine adhesive and sealing capability to the adhesive surface of the Proctor Passive Wraptite self-adhesive membranes.

Conclusion

1. There was no reaction to plasticizer migration (adverse chemical reaction) between any of the sealants used and the 'DriSpace' wraps/membranes & tapes.
2. There was no 'bleed through' & plasticizer migration of the Gorilla BlackJack Bituminous Sealant to the Proctor Passive Wraptite membranes or the DriStud Cool Tape or the DriFlash tape.
3. There were only two instances of adhesive failure. This occurred between Soudal products and the Proctor Passive Wraptite SA. **Note:** however, there are five other sealants provided a positive sealing solution.
4. The Gorilla Expanding Foams that were applied and achieved a bond that would provide an Air-Seal that would meet the requirements for the Window Installation industry.

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22 March 2023

Testing Outcomes

Adhesion of Soudal Sealants to DriSpace Wraps - Upper Surface

Upper Surface	Gorilla MS Sealant	Gorilla Plumbers Silicone	Gorilla 940FC	Gorilla BlackJack Bituminous Sealant	Soudaseal 240FC	Soudaseal Firestop MS	Gorilla Fix All Flexi
WRAPS							
DriStud Wall Wrap	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
DriStud REPEL	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive Wraptite SA	Pass Sealed	FAIL	Pass Excellent adhesion	Pass Excellent adhesion	FAIL	Pass Sealed	Pass Excellent adhesion
ProctorPassive Wraptite UV-SA	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive SmartVap	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorGeo Vap 120	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion

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Adhesion of Soudal Expanding Foams to DriSpace Wraps - Upper Layer

AIR-SEAL: *Upper Surface*	Gorilla PRO Expanding Foam	Gorilla FLEXI Expanding Foam	Gorilla Fire Rated Expanding Foam
WRAPS			
DriStud Wall Wrap	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
DriStud REPEL	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive Wraptite SA	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive Wraptite UV-SA	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive SmartVap	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorGeo Vap 120	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion

Adhesion of Sealant to Adhesive layer of Wrap

There were no signs of any plasticizer migration in the test amongst all samples tested

(Adhesive Surface)	Gorilla MS Sealant	Gorilla Plumbers Silicone	Gorilla Fix All Flexi	Gorilla 940FC	Gorilla BlackJack Bituminous Sealant	Soudaseal 240FC	Soudaseal Firestop MS
WRAP							
ProctorPassive Wraptite SA	Pass Sealed	Pass Sealed	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
ProctorPassive Wraptite UV-SA	Pass Excellent adhesion	Pass Sealed	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion

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Adhesion of Soudal Sealants to DriSpace Tapes

Upper Surface	**Gorilla MS Sealant**	**Gorilla Plumbers Silicone**	**Gorilla Fix All Flexi**	**Gorilla 940FC**	**Gorilla BlackJack Bituminous Sealant**	**Soudaseal 240FC**	**Soudaseal Firestop MS**
TAPES							
DriStud Cool Window Flashing	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
DriFlash Tape	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion

Adhesion of Soudal Expanding Foams to DriSpace Tapes

AIR-SEAL: *Upper Surface*	**Gorilla PRO Expanding Foam**	**Gorilla FLEXI Expanding Foam**	**Gorilla Fire Rated Expanding Foam**
WRAPS			
DriStud Cool Window Flashing	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion
DriFlash Tape	Pass Excellent adhesion	Pass Excellent adhesion	Pass Excellent adhesion

Notes:

- **Pass Excellent Adhesion** notes that the product bond was successful and either there was delamination of the DriSpace Wrap/Membrane or tape when excessive force was applied.
- **Pass Sealing** notes that there was a strong secure bond to the applied surface, but that when strong consistent force was applied at 90°'s to the applied surface the sealant separated from the surface without leaving a large residue. Under normal applied forces the seal would have remained intact.
- **FAIL** notes that with little applied force the sealant 'let go' form the applied surface.

- The angular force applied to the sealants in the test was at a far higher level than what would occur in a normal construction environment.

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