

MÉTHODOLOGIE OF ADHESION ON-SITE TEST ASTM C1521

DESTRUCTIVE METHOD (WEATHERSEAL AND MOVEMENT JOINT)

- Method A "Tail"

Testing equipment:

- Thermometer/Hygrometer
- Ruler
- Retractable razor knife
- Camera
- Replacement sealant (for repair)
- Backer rod (for repair)

Results:

- Success criteria: 200% to 400% elongation with 100% cohesive adhesion



Cohesive Failure

- Failure criteria: adhesive failure



Adhesive Failure

Possible reasons:

1. Poor surface preparation
2. Wrong choice of sealant
3. Incompatibility between substrate and sealant
4. Assembly time too long
5. Wrong joint design
6. Wrong installation

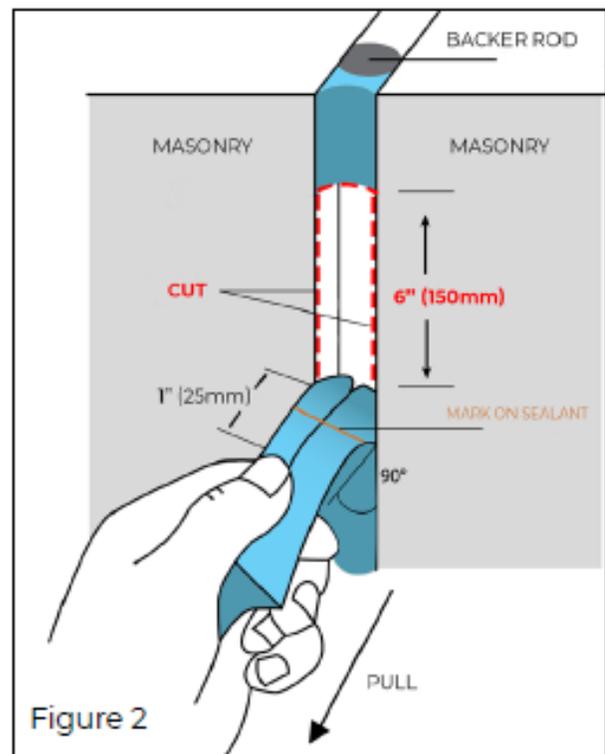
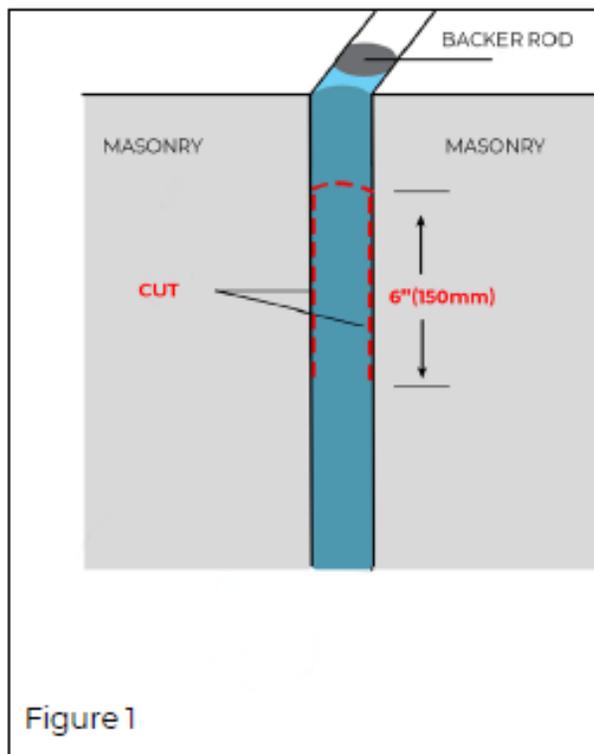
If a primer is used:

- Incompatibility between sealant and primer
- Incompatibility between substrate and primer
- Wrong choice of primer
- Time between application of primer and sealant too short or too long:
 - *Too short = the solvent in the primer is not completely evaporated, which will contaminate the sealant
 - *Too long: environmental contaminants that deposit on the primer. This will create poor adhesion between the sealant and the primer.

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ADHESION TEST

- Under certain climatic conditions, an adhesion test can be done after 7 and 14 days.
- For optimal results, you must do an adhesion test between 21 and 28 days after application.
- This test must be done before starting the work, in order, to define the procedure related to the project.
- Ideally, the adhesion test should be performed randomly throughout the project to detect any anomaly.
- With a sharp retractable razor knife, cut through sealant at bond line on a length of 6'' (150mm) on both surfaces and across on end to create a tail.
- Make cut portion of sealant 1'' (25mm) from the adhesive bond.
- Grab the 1'' (25mm) portion previously marked.
- Pull the tail at 90 degrees and measure the elongation with a ruler as well as the type of break (cohesive / adhesive).
- The sealant should show a cohesive break and have an elongation of at least 2 to 4 times its initial length depending on the sealant used.



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REPAIRING THE ADHESION TEST:

Completely remove the sealant from the test area and apply fresh sealant as described in sections 1.1, 1.2, 2.1 and 2.2: [Application procedure for sealant movement and waterproofing joint](#)

IMPORTANT

À LIRE ATTENTIVEMENT

Les renseignements et les recommandations contenus, aux présentes sont issus de nos travaux de recherches et d'informations provenant d'autres sources fiables. Ces données ne s'appliquent qu'à nos produits et non lorsque ceux-ci sont utilisés avec d'autres produits. Nous croyons à la fiabilité de nos renseignements. Toutefois, aucune garantie n'est offerte en ce sens. La responsabilité incombe à l'acheteur de vérifier ces données selon ses propres conditions d'opération afin de s'assurer que celles-ci sont conformes à l'usage auquel le produit est destiné, ceci avant même de l'utiliser.

LA GARANTIE OFFERTE PAR ADFAST SE LIMITE AU REMPLACEMENT OU REMBOURSEMENT DU PRODUIT SI CELUI-CI S'AVÈRE DÉFECTUEUX. AUCUNE AUTRE GARANTIE IMPLICITE OU EXPLICITE NE S'APPLIQUE. ADFAST DÉCLINE TOUTE AUTRE RESPONSABILITÉ POUR DOMMAGES ACCESSOIRES OU CONSÉQUENTS.