

TEST REPORT

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Project Title: Performance Testing of Butyl Strip Sealant

Client: Specialist Technical Products Ltd


For The Attention of: Mr Peter Bolton

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Work Location: Ceram UK



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1 INTRODUCTION

Specialist Technical Products Ltd provided samples of butyl strip sealant for use in the test programme. The strip sealant had nominal dimensions of 9mm x 3mm and was pale grey in colour.

This report summarises the results of a series of tests carried out on the sealant to determine its performance before and after accelerated ageing, cyclic shear loading, and water retention.

2 PROCEDURE

The tests were carried out in accordance with the methods stated in Test Methods 1 to 5 based on the methods given in Appendix 1 of NFRC/FRA Technical Bulletin 36.

The results of the tests are given in Table 1.

3 RESULTS

The results of the tests are summarised in Table 1.

4 CONCLUSIONS

The strip sealant as tested achieved a classification of Class A (See Table 1).

Table 1 - Performance Data of Butyl Strip Sealant

Test Number/Description	Test Results		Performance Classification
Test 1 – Adhesion/Cohesion before and after artificial heat ageing	No loss of adhesion when the joint is extended by 30% of its compressed thickness before and after ageing		A
Test 2 – Low force static shear	Separated by less than 5mm after 7 days when subjected to 50g mass.		A
Test 3 – Water resistance	No leaks during test period		A
Test 4 – Compression	Max compression 1.50kgcm ² when tested at 23°C (Limit = 1.5kgcm ²)	Max compression 1.57kgcm ² when tested at 5°C (Limit = 2.5kgcm ²)	A
Test 5 – Shear retention before and after ageing/cyclic testing	Mean shear strength 103.4N before ageing	Mean shear strength 78.6N (76%) after ageing	A