Techno Source
A Division of Duraline (Pty) Ltd
Reg: 1997/000960/07
50 Mynhardt Street
Gants Centre
Strand Industrial
7140
Tel: (021) 853 0471
Fax: (021) 853 0599
E-mail: info@technosource.co.za

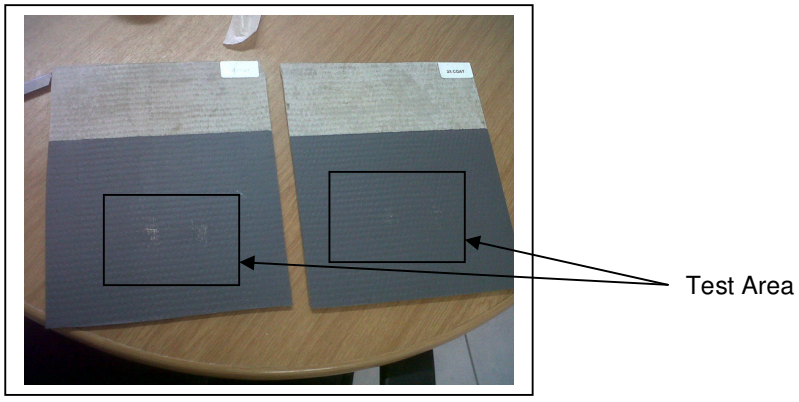
PAINT TECHNOLOGY EXPERTS

From	:	Werner Botha
To	:	Pieter de Vries
Date	:	04 July 2012
Subject	:	Adhesion Test Report
Product	:	Roofcryl painted on prepared and sealed asbestos panels

---

1. Test Overview:

   2 x Asbestos sample panels were supplied to laboratory. The sample panels were pre-prepared and pre-coated by the client with a clear asbestos surface sealant rendering the substrate surface to a hard and side sheen appearance. The purpose of the testing was to specifically measure the adhesion properties of Duraline Roofcryl (pure acrylic roof coating) to the customer supplied sample panels prepared and coated with the asbestos surface sealant.



2. Method of application:

   One sample panel (Panel A) was coated, by means of a brush, with only one coat of Duraline Roofcryl and the other sample panel (Panel B), also brushed, with two coats of Duraline Roofcryl; leaving the necessary drying times between coats. The panels were further left for a period of five days to fully coalesce and harden to full strength.

Techno Source
A Division of Duraline (Pty) Ltd
Reg: 1997/000960/07
50 Mynhardt Street
Gants Centre
Strand Industrial
7140
Tel: (021) 853 0471
Fax: (021) 853 0599
E-mail: info@technosource.co.za

PAINT TECHNOLOGY EXPERTS

3. Method of testing:

A standard cross cut adhesion test was conducted on both the panels five days from application. The sample panels were both tested for adhesion at two separate areas of 15mm² each. The panels were cut crosswise and test adhesion tape were applied and rubbed down to the sample panel test area. The adhesion tape was then manually removed with a moderate pulling action and the test area was observed for areas where the paint film was removed from the panel.

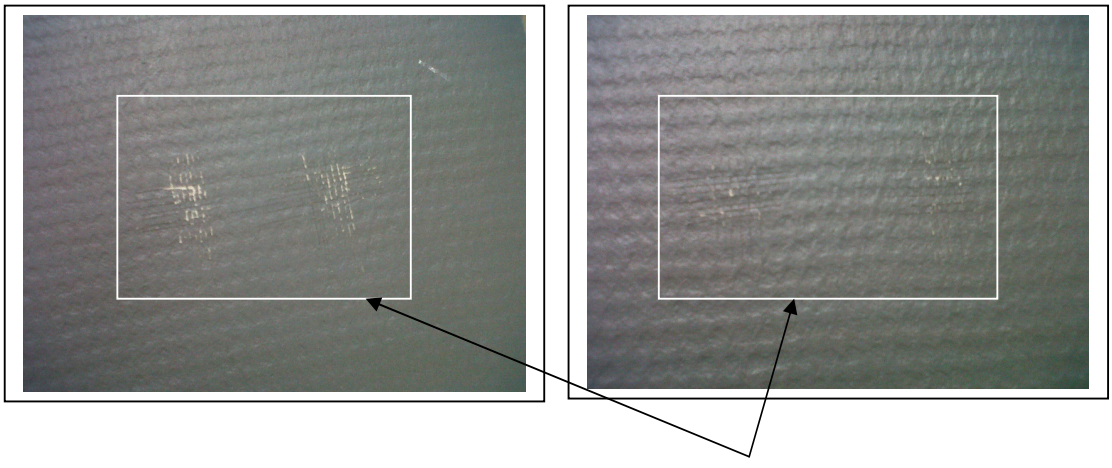
An adhesion rating is given on a scale of 1 – 10 (1 extremely low adhesion and 10 excellent adhesions). The judgment is made mathematically by calculating the percentage of test area lost after removing the adhesion tape.

4. Results:

The results are tabulated below:

	Sample Panel A	**Sample Panel B**
Roofcryl	1 x Coat	2 x Coats
Percentage Film Loss	> 20 %	> 5%
Test Rating (1 Poor, 10 Excellent)	8	9.5
Olympus SZ 51 Observation	No loss of adhesion between paint and asbestos	No loss of adhesion between paint and asbestos

Sample Panel A



Sample Panel B

Test Area

The pieces of paint film that was pulled off by the adhesion tape was analyzed under a Olympus SZ 51 magnifier and it was noted that there were no actual loss of adhesion between the paint and the actual asbestos which indicates that the percentage film loss was actually due to the

Techno Source
PAINT TECHNOLOGY EXPERTS

Techno Source
A Division of Duraline (Pty) Ltd
Reg: 1997/000960/07
50 Mynhardt Street
Gants Centre
Strand Industrial
7140
Tel: (021) 853 0471
Fax: (021) 853 0599
E-mail: info@technosource.co.za

destruction of the asbestos surface rather than the loss of adhesion by the coating.

Olympus SZ51 Magnifier

5. Conclusion and Recommendations:

   There where no significant loss of adhesion between Roofcyl and the customer supplied panels treated with the asbestos sealant. This indicates that Roofcryl is a suitable top coat for asbestos surfaces treated with the specific asbestos sealant of the client. There was however better results on the application of two coats of Roofcryl rather than one rendering the dried paint film to a thicker and more durable protective layer against weathering and other destructive elements.