



DIVISION OF  
BUILDING  
TECHNOLOGY



**CSIR**



Building  
Technology

CSIR

# SABS 0177 PART III TEST ON MICON “INTUSAYF WB”





**Building Products & Services Programme**

**SABS 0177 PART III TEST ON MICON “INTUSAYF WB”**

Contract No:

**BF 202/069 5600 5664**

May 1997

Division of Building Technology, CSIR  
PO Box 395 Pretoria 0001  
Republic of South Africa

Telephone: (012) 841-3871  
Telefax: (012) 841-4680

## SABS 0177 PART III TEST ON MICON “INTUSAYF WB”

Please note that this report is subject to the attached *General Contract Conditions*.

### 1. SAMPLE DESCRIPTION

The sample submitted for testing was a white, water based intumescent coating identified as Micon “Intusayf WB”. The dry thickness of paint on the test sample was 250 µm. The sample was tested with a light green topcoat which added another 20 to 30 µm to the overall dry thickness.

### 2. TEST METHOD

The material was applied to a fibre cement board to the correct dry thickness and tested according to SABS 0177 Part III in order to ascertain its flame spread, heat contribution and smoke evolution properties. Based on these a surface fire index was calculated and a classification awarded.

### 3. RESULTS

The following results were obtained:

- Spread of Flame Index : 0
- Heat Contributed Index : 0
- Smoke Emitted Index : 0.12

Therefore the Surface Fire Index of the material is  $0.12/3 = 0.04$ .

The table with the maximum allowable values of the various indices for the different classifications are given below:

Class	Spread of Flame Index	Heat Contributed Index	Smoke Emission Index	Surface Fire Index
1	0.1	0.1	0.2	0.1
2	0.7	0.8	1.0	0.6
3	1.5	1.7	2.0	1.2
4	3.5	3.8	4.0	2.9
5	5.5	5.8	6.0	4.5

From the table it can therefore be seen that Micon “Intusayf WB” applied to a dry thickness of 250 µm is classified as a Class 1 finishing material.

#### 4. CONCLUSION

Micon “Intusayf WB” is classified as a Class 1 material when a sample with a dry thickness of 250 µm was evaluated. This would make it suitable for all localities in all occupation types from a surface flame spread point of view.



**K van Dyk**

**FIRE AND EXPLOSIONS GROUP**

on behalf of the Division of Building Technology - CSIR



## GENERAL CONTRACT CONDITIONS

### 1. PURPOSE

The purpose of the investigation must be fully disclosed to the CSIR. The client will use the results of the investigation only for the purpose disclosed to the CSIR, unless otherwise agreed.

### 2. RISK RELATING TO MATERIALS, APPARATUS, OR EQUIPMENT

Materials, apparatus or equipment delivered by or on behalf of the client to the CSIR pursuant to the contract, shall be accepted, retained and used at the owner's risk.

### 3. PUBLICATION OF REPORTS

(a) The contents of any interim reports issued are confidential and may not be published by the CSIR or the client, and the results of any discussions with CSIR personnel relating to this investigation may not be communicated to the press or technical journals or be given publicity in any other manner until the final report has been issued.

(b) The final report will be the property of the client and may be published by him provided that:

- (i) the CSIR be acknowledged in the publication;
- (ii) it is published in full, or where only extracts or a summary of an abridgment are published, the CSIR's written approval of the extracts, summary or abridged report be obtained prior to publication; and
- (iii) the CSIR be indemnified against any claim for damages which may result from publication.

### 4. CONFIDENTIALITY

The CSIR will not publish any results without the client's consent. The CSIR is, however, entitled to use technical information obtained from the investigation, but undertakes in doing so not to identify the sponsor or the subject of this investigation.

### 5. ADVERTISING

No reference may be made to CSIR or any of its strategic units or employees in advertisements or for sale or publicity purposes without the CSIR's prior written consent.

### 6. OWNERSHIP OF INTELLECTUAL PROPERTY

In terms of Act No. 46 of 1988 all intellectual property developed by CSIR during the course of the investigation vests in the CSIR unless otherwise agreed in writing.

### 7. DOMICILIUM CITANDI ET EXECUTANDI

The parties hereto respectively choose as their *domiciliuim citandi et exectutandi* for all purposes of, and in connection with, this contract, the addresses stated in the letter of proposal.

### 8. WAIVER

Failure of either party hereto at any time to demand performance of any provision of the contract shall not affect that party's rights to require full performance thereof at any time thereafter and a waiver by either party of a breach by the other of any such provision shall not be taken to a waiver of any subsequent or similar breach, or as nullifying by the effectiveness of such provision.

### 9. NOTICES

Any notice to be given hereunder shall be given in writing and may be given either personally or may be sent by post or telex or telefax and addressed to the relevant party at its *domicilium* or to such other address as shall be notified in writing by any of the parties to the other. Any notice given by post shall be deemed to have been served on the expiry of 7 (seven) working days after the same is posted by registered post by (land or airmail). Any notice delivered personally or sent by telex or telefax shall be deemed to have been served at the time of delivery or sending.

Any notice to be given shall be given to the client at his principal place of business and to the CSIR, Scientia (BOUTEK) at Meiring Naude Road, Pretoria.

### 10. AMENDMENTS

No amendment to this contract or the proposal shall be of any force or effect unless reduced to writing and signed by both parties.

### 11. VALUE ADDED TAX

It is hereby expressly recorded that any Value Added Tax (VAR) payable in respect of the services rendered in terms of this contract shall be for the account of the client and shall be included in the final payment payable in terms of this contract.

**12. LIMITATION OF LIABILITY**

While every care is taken to ensure the accuracy of any work performed by the CSIR under this contract, the CSIR does not warrant the merchantability or commercial viability of the research results. Neither the CSIR nor its employees shall be liable in any way whatsoever to the client or to any other person whatsoever for any negligence, error or omission in carrying out the work or for any erroneous statement, whether in fact or opinion, contained in any report issued pursuant to the work performed.

**13. GOVERNING LAW AND JURISDICTION**

13.1 The contract between the parties shall be governed by and interpreted in all respects in accordance with the laws of the Republic of South Africa. The parties hereby consent to the jurisdiction of any competent Magistrate's Court for the adjudication of any claim based on this contract.

13.2 Notwithstanding the provision of 13.1, in the event of the parties failing to reach agreement in regard to the interpretation of, or the carrying into effect of, or any of the parties' rights and obligation arising from, or the termination of or arising from the termination of, or the rectification of, this agreement within 14 (fourteen) days of the dispute arising, then either party may, by notice in writing to the party, refer the dispute for determination by arbitration in South Africa under the provision of the Arbitration Act, Act No. 42 of 1965, as amended.

The arbitrator shall be, if the matter in dispute is principally

- a legal matter, a practising attorney of not less than 15 (fifteen) years standing or a practising advocate of not less than 10 (ten) year standing;
- an accounting matter, a practising chartered accountant of not less than 10 (ten) year standing;
- any other matter, any independent person agreed to between parties.

Should the parties fail to agree on an arbitrator within 14 (fourteen) days after the arbitration has been demanded then the arbitrator shall be nominated by the (current) serving President of the Law Society of the Transvaal.

**14. PAYMENT OF ACCOUNT**

All amounts due in terms of this contact shall be payable on the due date indicated in the proposal or within 30 (thirty) days of the date of issue of an invoice where that is required. Any amount not paid on the due date shall bear interest at a rate of 2% (two per cent) above the prime overdraft rate charged by Volkskas Bank Limited to its preferred corporate clients, calculated and compounded daily as from the due date until date of payment.

**15. VALIDITY**

All proposals are valid for 30 (thirty) days from date of issue, unless otherwise indicated, and unless accepted within that period, will lapse automatically.

**16. TERMINATION**

This contract may be terminated forthwith by either party in the event of the other being liquidated or being placed under judicial management.

In the event of any party to this contract being in breach of any of the terms of the contract, the other may by written notice require the party which is in breach to remedy the breach, and if it has not been done so within 7 (seven) days of receipt of such notice, or if the breach is incapable of being remedied, the other party may, in writing, terminate the contract without prejudice to its right to claim damages.