



FAR 3046

The Fire Performance of Rockcote EPS Render System When Applied to a Concrete Block or Fibre Cement Substrate

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- a. **Limitation and Liability**
- i. BRANZ undertakes to exercise due care and skill in the performance of the Services and accepts liability to the Client only in cases of proven negligence.
 - ii. Nothing in this Agreement shall exclude or limit BRANZ's liability to a Client for death or personal injury or for fraud or any other matter resulting from BRANZ's negligence for which it would be illegal to exclude or limit its liability.
 - iii. BRANZ is neither an insurer nor a guarantor and disclaims all liability in such capacity. Clients seeking a guarantee against loss or damage should obtain appropriate insurance.
 - iv. Neither BRANZ nor any of its officers, employees, agents or subcontractors shall be liable to the Client nor any third party for any actions taken or not taken on the basis of any Output nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to BRANZ.
 - v. BRANZ shall not be liable for any delayed, partial or total non-performance of the Services arising directly or indirectly from any event outside BRANZ's control including failure by the Client to comply with any of its obligations hereunder.
 - vi. The liability of BRANZ in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim or NZD\$50,000 (or its equivalent in local currency), whichever is the lesser.
 - vii. BRANZ shall have no liability for any indirect or consequential loss (including loss of profits).
 - viii. In the event of any claim the Client must give written notice to BRANZ within 30 days of discovery of the facts alleged to justify such claim and, in any case, BRANZ shall be discharged from all liability for all claims for loss, damage or expense unless legal proceedings are commenced in respect of the claim within one year from:
 - The date of performance by BRANZ of the service which gives rise to the claim;
 - or
 - The date when the service should have been completed in the event of any alleged non-performance.
- b. **Indemnification:** The Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any third party for loss, damage or expense of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance, of any Services.
- c. Without limiting clause b above, the Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any party for loss, damage or expense of whatsoever nature including all legal expenses and related costs arising out of:
- i. any failure by the Client to provide accurate and sufficient information to BRANZ to perform the Services;
 - ii. any misstatement or misrepresentation of the Outputs, including Public Outputs;
 - iii. any defects in the Products the subject of the Services; or
 - iv. any changes, modifications or alterations to the Products the subject of the Services.



The Fire Performance of Rockcote EPS Render System When Applied to a Concrete Block or Fibre Cement Substrate

1. CLIENT

Rockcote Resene Ltd
77 Wrights Road
Christchurch
New Zealand

2. INTRODUCTION

This report gives BRANZ's assessment of the fire performance of Rockcote EPS Render System, when applied to a concrete block or fibre cement substrate, with respect to the fire properties of external wall cladding systems, in accordance with the New Zealand Building Code Acceptable Solution C/AS1 Part 7.11 and Appendix C9.1 dated 1 June 2001.

3. BACKGROUND

In BRANZ Test Report FH3712, Rockcote EPS Render System, External Insulation and Finish System (EIFS) was tested in accordance with the requirements of the New Zealand Building Code Acceptable Solution C/AS1 Part 7.11 and Appendix C9.1 dated 1 June 2001.

The test sample preparation was described by the client as comprising a 40 mm thick white expanded polystyrene (EPS) substrate to which was applied a minimum 5 mm thickness of fibreglass mesh reinforced polymer-modified cement based plaster base coat, followed by a 2 mm thick polymer modified cement based texture coat. The plaster system was finished with one coat of Rockcote Render Prime and two coats of white coloured Rockcote Premium Armour. The application rate of the Rockcote Premium Armour is 3.66 m² per litre, giving a two coat dry film build of 120 microns. The finished render system was applied to the exposed face and all four sides, while the back face received no coating.

In BRANZ report FH3712, it concluded that Rockcote EPS Render System achieved a performance level A classification in accordance with the New Zealand Building Code Acceptable Solutions C/AS1 Table 7.5, with a peak rate of heat release of 30.8 kW/m² and a total heat release of 4.8 MJ/m².

4. DISCUSSION

The two proposed variations consist of the above render system being directly applied to either concrete block or fibre cement substrates in place of the EPS as tested in BRANZ Test Report FH3712. Substituting the EPS core of the EIFS system with either concrete or fibre cement will not increase the quantity of combustible material present in the system as a whole. It is therefore considered that either of the proposed


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variations would not detrimentally affect the fire performance the system achieved in BRANZ Test FH3712.

5. CONCLUSION


It is considered that the Rockcote EPS Render System, applied as described in BRANZ Test Report FH3712 directly onto either a concrete block or fibre cement substrate, would achieve at least a performance level A classification in accordance with the New Zealand Building Code Acceptable Solutions C/AS1 Table 7.5, when tested in accordance with the New Zealand Building Code Acceptable Solution C/AS1 Part 7.11 and Appendix C9.1 dated 1 June 2001.

6. LIMITATIONS

This assessment report is subject to the completeness and accuracy of the information supplied.


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