

Introduction

Introducing Storm Seal – Bitumen Impregnated Polyurethane Foam

A revolutionary solution designed to provide comprehensive protection and weatherproofing for roofing systems. This advanced product features specially impregnated polyurethane foam, engineered for versatile applications including the sealing of tiled roof valleys, perimeters of steel roofs, areas around skylights, and other roof penetrations. Storm Seal sets the benchmark for effective roof sealing and reinforcement.

Applications

- ✓ Tiled Roof Valleys: Effectively seals valleys between roof tiles, preventing water ingress and potential damage.
- ✓ Steel Roof Perimeters: Provides a durable seal around the entire perimeter of steel roofs, bolstering their resistance against external elements.
- ✓ Skylights and Roof Penetrations: Ensures a secure and weatherproof seal around skylights and other roof penetrations, preventing leaks and potential vulnerabilities.

Compression Resistance

- ✓ At 20% compression, the foam resists dust, draughts, and vibrations.
- ✓ At 50% compression, it withstands fog, light dampness, slight flowing water, and reverberation.
- ✓ At 70% compression, the foam remains resistant to flowing water and dust storms.
- ✓ At 75% compression, it maintains its integrity against standing water

Aging and Durability:

Industrial Roof Coatings Storm Seal has been subjected to accelerated aging testing, indicating a potential working life of up to 20 years based on the application. Notably, the foam does not extrude when compressed.

The foam exhibits remarkable resilience, enduring countless cycles of expansion and contraction without displaying fatigue or loss of recovery characteristics. The material can be compressed by up to 90% without rupturing and retains its full recovery properties. Following compression forces, the foam demonstrates an impressive 98% elastic recovery in the initial cycle.

Transport

Industrial Roof Coatings Storm Seal is not classed as a dangerous good and does not carry a placard

Box Size:

270x300x2000

Weight:

22kg-25kg

Storm Seal is generally transported as a pallet of 16 boxes.

864 Length Pallet 1728m

54 Length Box 108m

18 Length Box 36m

6 Length Box/Bag 12m

Storage

Best in cool areas with no direct sunlight, store above 5°C and below 40°C.

Shelf life: 1-2 years, depending on light and storage temperature conditions.

Health & Safety - MSDS Issue Date February 22 2023

Use Safety Precautions

The product may cause an allergic skin reaction.

Wear protective gloves/protective clothing, including eye/face protection and suitable respirator.

CSIRO Flame Test Results

The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (Min)	7.0	0.5
Flame Spread Time (Sec)	20.3	1.5
Heat Evolved Integral (kJ/m ²)	113.4	11.9
Log Optical Density	-0.668	0.028

For regulatory purposes, these figures correspond to the following indices:

Ignitability	Spread of Flame	Heat Evolved	Smoke Developed
Index	Index	Index	Index
(0 – 20)	(0 – 10)	(0 – 10)	(0 – 10)
13	9	4	5

Disposal

Environmental Certifications: NIL

Consult local authority for regional guidelines.

Maintenance and Cleaning

Regular annual cleaning is essential to prevent grime buildup and ensure the long-lasting performance of Storm Seal. Additionally, keeping valleys and gutters free from debris is crucial for product longevity.

Typical Properties

- ❖ Dangerous Goods Class: Not Applicable
- ❖ VOC Content: Low <90g/L
- ❖ VOC Emissions: Not Applicable
- ❖ Thinning and Dilution: N/A
- ❖ Appearance: Black coated foam
- ❖ Odour: Low
- ❖ Specific Gravity: 1.15

Disclaimer

The content of this Technical Data Sheet is the intellectual property of Industrial Roof Coatings and may not be altered or modified without explicit written permission. Industrial Roof Coatings disclaims any responsibility for unauthorised changes.

Unless a project-specific guideline has been provided by Industrial Roof Coatings, this document does not assure the suitability of any product or system for your specific project needs.

The information herein is given in good faith and is considered accurate at the time of its release. The performance of products and coating systems is expected to align with the details provided here, assuming the tile condition is sound, the application is performed by a skilled professional, and all preparation, application, and maintenance procedures outlined in this document are strictly adhered to.

In cases where liability cannot be legally excluded, the liability of Industrial Roof Coatings is restricted to either resupplying the relevant products or refunding the cost of those products.

Certificate of Test

N92/0022:NFBNE1294

**SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION,
HEAT RELEASE AND SMOKE RELEASE: REPORT NO. FNE6050**

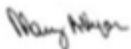
TRADE NAME	Stormseal															
SPONSOR	Storm & Security Roof Tile Fixing Pty Ltd 2/5 Bungaleen Court DANDENONG VIC															
DESCRIPTION OF TEST SPECIMEN	A description of the test samples has been provided by the sponsor with his Sponsored Investigation Agreement of 14 April 1992. Polyurethane foam is impregnated with water-based bitumen emulsion and self-adhered to a 4.5mm thick fibre-reinforced cement board. Nominal thickness of foam tested: 30mm The density of impregnated foam: 28 – 30kg/cubic Colour: Black															
TEST PROCEDURE	The samples were tested in accordance with Australian Standard 1530.3-1989, Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release. For the test each sample was retained by one layer of square mesh having 0.8 mm dia. Wires at approximately 13 mm centres over the exposed face and clamped to the specimen holder in four places.															
OBSERVATIONS	Samples began to melt after approximately 3 minutes of exposure to the test. Some flashing occurred on the samples prior to ignition. Flaming droplets were observed following the ignition of the specimen.															
RESULTS	The following means and standard errors were obtained: <table><thead><tr><th>Parameter</th><th>Mean</th><th>Standard Error</th></tr></thead><tbody><tr><td>Ignition Time (Min)</td><td>7.0</td><td>0.5</td></tr><tr><td>Flame Spread Time (Sec)</td><td>20.3</td><td>1.5</td></tr><tr><td>Heat Evolved Integral (kJ/m²)</td><td>113.4</td><td>11.9</td></tr><tr><td>Log Optical Density</td><td>-0.668</td><td>0.028</td></tr></tbody></table>	Parameter	Mean	Standard Error	Ignition Time (Min)	7.0	0.5	Flame Spread Time (Sec)	20.3	1.5	Heat Evolved Integral (kJ/m ²)	113.4	11.9	Log Optical Density	-0.668	0.028
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Testing Officer: Z Trojko
Issued on the 13th day of May 1992
without alterations or additions.

DATE OF TEST: 27 April 1992

M A Ryan
for Manager, Fire Technology

Division of Building Construction and Engineering

