

INSONO AF3-90

A soundproofing and crack insulation membrane

September 2026

DESCRIPTION:

INSONO AF3-90 membranes are composed of a self-adhesive elastomeric compound with an exposed non-woven polyester reinforcement. The back of the membrane is protected by a release film.

INSONO AF3-90 membranes are mainly used under ceramic tiles with tile adhesive, they can also be installed under wood flooring or vinyl planks.

INSTALLATION PROCEDURE:

SUBSTRATE:

Suitable for: Properly prepared in situ or precast concrete, Wall render, Floor screeds / concrete topping, Wet area grade fibre-cement sheeting, Wet area grade plasterboard, Structural marine plywood (EWPA "Type 5" certification mark).

All surfaces to be waterproofed must be firm, clean, dry, sound and smooth. All laitance, grease, oil, wax, curing compounds, loose material, paint and any other contaminants which may reduce or prevent adhesion must be mechanically removed. Masonry surfaces must be pointed flush and surface defects repaired.

Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets.

New concrete must be cured for a minimum of 28 days. All concrete must be completely dry and primed. Render and cement screeds must be cured for a minimum of 7 days. Damp concrete, render or screeds must be allowed to thoroughly dry and primed. Water resistant fibre cement sheeting, plasterboard and structural marine plywood must be installed in accordance with the manufacturers' installation requirements.

PRIMING:

Use the INSONO AF3 adhesive for internal applications or the ELASTOCOL STICK primer for external applications. Apply the adhesive or primer to the prepared substrate by using a brush or roller in accordance with the relevant product's Technical Data Sheet.

Allow the adhesive or primer to fully dry and become tacky prior to commencing the application of INSONO AF3-90 membrane system.

APPLICATION METHOD:

FOR WATERPROOFING INSTALLATION:

After preparing the substrate, install INSONO AF3 TAPE in all corners and changes of direction before installing the INSONO AF3-90 membrane.

Adhesion test is recommended prior to installation of membrane.

Pipes, penetration and corners can be detailed with membrane or premanufactured TPE accessories, the accessories will be installed on the substrate with M1 Sealant.

Unroll INSONO AF3-90 membrane sheets onto the prepared surface.

Starting at the low point, lay out the membrane to ensure the sheets are installed perpendicular to the slope, shingled to prevent back-water laps.

Ensure to hot air weld the 50 mm side-laps and 80 mm end-laps. End-laps should be staggered apart at least 300 mm.

As the INSONO AF3-90 is unrolled, apply pressure on the topside of the sheet to automatically activate and optimise the self-adhesive property, and to get a full adhesion of the under face of the membrane to the primed substrate.

Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired result.

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FOR SOUNDPROOFING INSTALLATION: (Indoor application only)

On clean substrate, apply INSONO AF3 ADHESIVE in the first sqm from the wall in a corner.

Unroll 1 sqm of the INSONO AF3-90 membrane and remove the release film. install this 1 sqm of membrane in the wet INSONO AF3 ADHESIVE .

Prepare the remaining surface with INSONO AF3 ADHESIVE.

Proceed with the installation of the remaining part of INSONO AF3-90 membrane into wet INSONO AF3 ADHESIVE installed in front of the membrane.

Once the membranes are installed, press firmly with a membrane roller to ensure good adhesion.

For Soundproofing Only

Install the membranes side-by-side without overlapping them, while leaving a gap of 1.5 mm between them. Let cure for 4 to 6 hours depending on conditions. Check the good adhesion of the INSONO AF3-90 membrane and then install ceramic tiles with approved polymer modified thin-set mortar or other approved finishing layer.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR EQUUS REPRESENTATIVE.

PACKAGING:

Specifications	Insono AF3-90
Surface / Underface	Non-woven polyester / Silicone release film
Thickness	2.3 mm
Dimensions	0.91 m x 15 m
Weight	32.4 kg
Rolls per pallet	16

PROPERTIES:

Properties	Standards	Insono AF3-90
Crack-resistant test	ANSI 118.12-2010; par 5.4	Pass
Moisture Vapour Transmission Rate	ASTM E96	0.14 g / (m ² .24h)
Tensile strength (MD/CMD) Elongation at break initial (MD/CMD) Elongation at break (56D water immersion) (56D water immersion in a bleach solution) (56D water immersion in a detergent solution) (7D heat ageing)	AS 1145 (at 23°C)	60.3 / 30.2 N / 50 mm 29% / 48% Pass Pass Pass Pass
Cyclic Fatigue (at 23°C)	CSIRO	Pass
Water absorption Weathering side up	AS 4858	0.725%
Water absorption Weathering side down	AS4858	0.10%

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ACOUSTIC PROPERTIES:

Assemblies	Laboratory Tests		Field Tests	
	STC (1)	IIC (2)	ASTC (3)	AIIC (4)
Concrete slab 20 cm + INSONO AF3-90 + ceramic tiles	53	47	53-56	52-56

- (1) STC: Standard test method for laboratory measurement of airborne sound transmission loss of building partition. Tests in compliance with the ASTM E90-09 standard.
- (2) IIC: Standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine. Tests in compliance with the ASTM E492-09 standard.
- (3) ASTC (FSTC): Field Sound Transmission Class. Tests in compliance with the ASTM E336-11 and ASTM E413 standards.*
- (4) AIIC (FIIC): Field Impact Insulation Class. Tests in compliance with the ASTM E007-11 and ASTM E989-11 standards.

*ASTC and AIIC results are presented for information purposes only. Equivalent performance cannot be guaranteed by SOPREMA.

VISUAL:



LIMITATION:

Do not use ready-mix products to adhere the tiles to the surface of the INSONO AF3-90.

Do not use on wood planks, compressed wood fibreboard, OSB, plywood treated with oil, Luan plywood, metal or surfaces such as self-adhesive tiles or laminated fibreglass.

STORAGE AND HANDLING:

Rolls must be stored upright and have a shelf life of 18 months. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

STATEMENT OF RESPONSIBILITY:

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.

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HEALTH & SAFETY:

Hygiene, Health and Environment

The product does not contain any substance which is likely to be detrimental to your health or the environment and complies with generally admitted Health and Safety Requirements. For more information, please refer to the relevant safety data sheet.

Quality, Environment and Safety Management

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, they operate independently monitored Quality and Environment Assurance Systems in line with EN ISO 9001 and EN ISO 14001.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Canada
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
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Manufacturer NZBN	9429050312962