

# INSONO AF3

## 47 / 90

TECHNICAL DATA SHEET

ANZ-TDS-20-INSONO AF3 47/90



SOUNDPROOFING

APPLICATIONS

INDOOR APPLICATIONS

BALCONIES

### DESCRIPTION

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

INSONO AF3 is mainly used under ceramic tiles, they can also be installed with wood flooring or vinyl planks.

### INSTALLATION PROCEDURE

#### SUBSTRATE:

- Suitable for:
  - Properly prepared in situ, precast and tilt up concrete
  - Render
  - Screeds
  - Fibre-cement sheeting
  - Wet area grade plasterboard
  - PPA certified structural
  - Marine plywood
  - Scyon sheeting
- 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.
- 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. Fibre cement sheeting, water resistant plasterboard, PAA structural and marine plywood and Scyon sheeting must be installed in accordance with the manufacturers' installation requirements.

#### PRIMING:

- Apply the INSONO AF3 PRIMER to the prepared substrate by using a brush or roller in accordance with the relevant product's Technical Data Sheet.
- Allow the INSONO AF3 PRIMER to fully dry prior to commencing the application of INSONO AF3 membrane.

#### APPLICATION:

- For soundproofing installation;  
Position the INSONO AF3 anti-fracture and acoustic membrane parallel to the side walls with the release film facing down to the floor. Unroll the membrane to a length of about 30 mm, and make sure that the membrane remains in the right position. Pull back the unrolled portion of the membrane backward on top of the rest of the roll. Prepare the concrete surface with INSONO AF3 ADHESIVE. Cut and peel off the silicon release film from the section of membrane unrolled previously. On the wet adhesive, install INSONO AF3-47 / INSONO AF3-90 membranes parallel to the side walls. Then apply INSONO AF3 ADHESIVE on the other section of the roll, and install the rest of the roll on the wet adhesive. Install the membranes side-by-side without overlapping them while leaving a gap of 1.5 mm between them. Once the membranes are installed, press firmly with a membrane roller to ensure good adhesion. Let cure for 2 to 6 hours depending on conditions. Check the good adhesion of the INSONO AF3 membrane and then install ceramic tiles with approved polymer modified thin-set mortar.
- For waterproofing installation;  
Start with SOPRASEAL STICK 1100 TC waterproofing strips before installing INSONO AF3 membranes. Trace the installation pattern over the surface to be covered in order to properly position the waterproofing strips. Trace a line at 860 mm for INSONO AF3-90 or at 950 mm for INSONO AF3-47 starting where the first INSONO AF3 membrane will be

Comply with AS 4858

Sound damping

Good traffic resistance

Rot proof

Excellent adhesion to mortar

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### APPLICATION (CONT.):

installed, which corresponds to the width of the INSONO AF3 membrane, minus 50 mm. This line marks the edge guide over which waterproofing strips must be glued. That way, the INSONO AF3 membranes will meet on the centre of the waterproofing tape. Trace next lines at 914 mm for INSONO AF3-90 or at 1,000 mm for INSONO AF3-47 from the previous line. Bond waterproofing strips along these guides with the recommended primer. Install INSONO AF3 membranes following this pattern, in accordance with Step 1.

**CAUTION:** Do not apply INSONO AF3 ADHESIVE on top of waterproofing strips.

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

### PACKAGING

SPECIFICATIONS	INSONO AF3-47	INSONO AF3-90
Surface	Non-woven polyester	
Underface	Silicone release film	
Thickness (CSIRO)	1.2 mm	2.2 mm
Dimensions	1 m x 16.76 m	0.91 m x 15 m
Weight	17 kg	32,4 kg
Rolls per pallet	25	16

### PROPERTIES

PROPERTIES	STANDARD	INSONO AF3-47	INSONO AF3-90
Crack-resistant test	ANSI 118.12-2010; par 5.4	Pass	
R-value	-	-	0.045
Moisture Vapour Transmission Rate	ASTM E96	0.68 g/(m <sup>2</sup> ·24h)	0.14 g/(m <sup>2</sup> ·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)	43.5 / 31.3 N/50 mm	60.3 / 30.2 N/50 mm
		27 % / 29 %	29 % / 48 %
		PASS	PASS
		PASS	PASS
		PASS	PASS
Cyclic Fatigue (at 23°C)	CSIRO	PASS	PASS
Water absorption Weathering side up	AS 4858	6.8 %	0.725 %
Water absorption Weathering side down	AS 4858	3.9 %	0.10 %
Surface burning characteristics of building materials	ASTM E84-17 (INSONO AF3-130+tiles)	-	-

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### ACOUSTIC PROPERTIES

ASSEMBLIES	LABORATORY TESTS		FIELD TESTS	
	STC (1)	IIC (2)	ASTC (3)	AIIC (4)
INSONO AF3-47 + ceramic tiles + concrete slab 20 cm	-	-	55-58	26-30
INSONO AF3-47 + ceramic tiles + concrete slab 20 cm + drop ceiling (1 gypsum board 15.9 mm)	-	-	57-60	35-39
INSONO AF3-90 + ceramic tiles + concrete slab 20 cm	53	47	53-56	52-56
INSONO AF3-90 + ceramic tiles + concrete slab 20 cm + drop ceiling (ACOUSTIVIBE CDC + cellulose + 2 gypsum boards 15.9 mm)	63	60	-	-

(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.

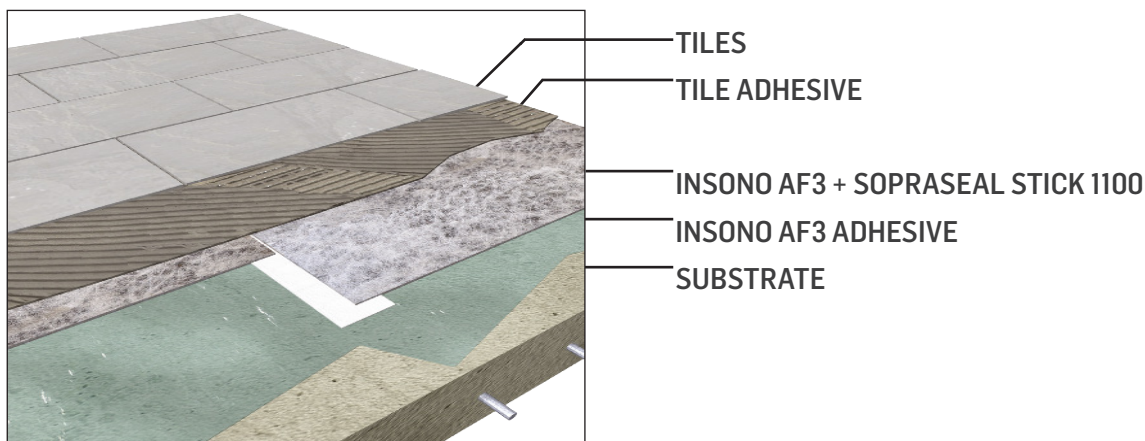
(2) **IIC** : Standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine. Tests in compliance with the ASTM E492-09 standard.

(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

- Only **INSONO AF3-90** can be installed on vertical surfaces.
- Do not use pre-mixed products to adhere the tiles to the surface of the **INSONO AF3**.
- Do not use on cracks larger than 10 mm.

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### STORAGE AND HANDLING

Rolls must be stored upright. 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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