

## PRODUCT SPECIFICATIONS

# MODIFIED BITUMEN MEMBRANE TORCH APPLY

Founded by

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1974

# INSUPLAST

### Methods of Application:

INSUPLAST membranes are designed for easy torch application using a propane torch; it can also apply using mechanical means. Substrates must be thoroughly cleaned and treated with Insu primer cold applied by brush, roller, or spray at a rate of 0.2 to 0.3 litres/m<sup>2</sup>. It will depend on substrate porosity. Membranes must be laid to allow side laps of 8 to 10 cm and end laps of 12 to 15 cm.

For more details, please contact Insumat Technical Services, we will be happy to provide assistance and advice in designing special waterproofing systems.

**Storage:** Sheet rolls shall be stored vertically in a dry place protected from sun and weather. Rolls shall be placed on clean floors or platforms in such a way as to prevent damage to ends and soiling with foreign matters.

NB: 1. The above product data is subject to technical updating without prior notice due to technological research development pursued by INSUMAT.

2. Increasing of mechanical properties for polyester as tensile strength, elongation and tear resistance are available according to customer requirements.

### Manufacturing of Insulating Materials and by-products Company, Insumat

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### APP Modified Bitumen Membrane Torch Apply Reinforced With Nonwoven Polyester Or Reinforced Glass Fiber

Specifications		Units	Results*		Method of Test	
			N Nonwoven Polyester	G Reinforced Glass Fiber		
INSUPLAST series NorG/3000&4000						
Compound	Thickness	mm	3&4(±0.2)	3&4(±0.2)	ASTM D-5147	
	Length	m	10(±1%)	10(±1%)	UNI 8202	
	Width	m	1(±1%)	1(±1%)	UNI 8202	
	Carrier		Polyester	Glass fiber	UNI 8202	
	R&B Softening Point	°C	>150	>150	ASTM D-36	
	Penetration at	25 °C	dmm	25	25	ASTM D-5
60 °C		dmm	110	110	ASTM D-5	
Membrane	Tensile strength	Longitudinal	N/5cm	700	350	ASTM D-5147
		Transverse	N/5cm	550	300	ASTM D-5147
	Elongation	Longitudinal	%	35	4	ASTM D-5147
		Transverse	%	40	3	ASTM D-5147
	Tear resistance	Longitudinal	N	400	200	ASTM D-4073
		Transverse	N	360	250	ASTM D-4073
	Low temperature flexibility	°C	-5	-5	ASTM D-5147	
	High temperature stability	°C	≥120	≥120	ASTM D-5147	
	Hot running test at 90 slope+ 90C	mm	<1	<1.0	UNI 8202	
	Water absorption	%	0.15(max)	0.2(max)	ASTM D-570	
	Moisture content	%	≤1.0	≤1.0	ASTM D-5147	
	Water tightness	Kpa	≥60	≥60	EN 1928	
Static puncture resistance		PS4	PS2	UNI 8202		
Dynamic puncture resistance		PD4	--	UNI 8202		
Dimensional stability (after thermal action)	%	≤1.0	≤0.2	ASTM D-1204		
Aging Due to UV-Radiation	2000hr	Pass the test	Pass the test	ASTM G-5377		

#### Quality Statement:

- The declared average values represent the best performance achieved at the present state of our knowledge, Insumat reserves the right to change, without warning, the technical characteristics in order to make the product more responding to the application requirements. The choice of the type of membrane for the kind of use is at the client's discretion.
  - All information / values listed in this technical data sheet may supersede relevant information / values listed in equivalent product(s) technical data sheets or submittal.
  - \*Tolerances for the above as per the latest product testing, results may vary +/- 20%
- Exact Value depends on thickness of the product / reinforcement, please ask Insumat's representative for the latest test results.
  - Actual measured data may vary due to circumstances beyond Insumat's control.
  - All products manufactured by Insumat Egypt, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, standard.
  - Deviating from the standard method, the assessment is made in 1 Hour test 4mm or 4.5Kg/m<sup>2</sup> products.