



INSUSEAL

Mineral **N / 4000**

**APP MODIFIED BITUMEN MEMBRANE TORCH APPLY
REINFORCED WITH NONWOVEN POLYESTER**

0°C

Specification		Units	Results	Method of Test	
INSUSEAL Mineral series					
Dimensions	Thickness	mm	4 (±0.2)	ASTM D-5147	
	Length	m	10 (±1%)	UNI 8202	
	Width	m	1 (±1%)	UNI 8202	
	Carrier		Polyester	UNI 8202	
Compound	R & B Softening Point	°C	>145	ASTM D-36	
	Penetration at	25°C	dm m	25	ASTM D-5
		60°C	dm m	110	ASTM D-5
Membrane	Tensile strength	Longitudinal	N/5cm	750	ASTM D-5147
		Transverse	N/5cm	700	ASTM D-5147
	Elongation	Longitudinal	%	46	ASTM D-5147
		Transverse	%	46	ASTM D-5147
	Tear resistance	Longitudinal	N	450	ASTM D-4073
		Transverse	N	360	ASTM D-4073
	Low temperature flexibility	°C	0	ASTM D-5147	
	High temperature stability	°C	≥120	ASTM D-5147	
	Hot running test at 90 slope +90c	mm	<1	UNI 8202	
	Water absorption	%	0.2 (max)	ASTM D-570	
	Granules Embedment	gm	1.5	ASTM D-4977	
	Water tightness	Kpa	≥60	EN 1928	
	Static puncture resistance		PS4	UNI 8202	
	Dynamic puncture resistance		PD4	UNI 8202	
	Dimensional stability after thermal action	%	≤1.0	ASTM D-1204	
Aging Due to UV-Radiation	2000 hr	Pass the test	ASTM G-5377		

Methods of application :

INSUSEAL membrane are designed for easy torch application using a propane torch; it can also be applied using mechanical means.

Substrates must be thoroughly cleaned and treated with INSUPRIMER cold applied by brush, roller or spray at a rate of 0.2 to 0.3 liters/m². It will depend on substrate porosity. Membrane must be laid to allow side laps of 8 to 10 cm and end laps of 12 to 15cm.

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 products data is subject to technical updating without prior notice due to technological research and development pursued by INSUMAT.
2. Increasing of mechanical properties for polyester as tensile strength, elongation and tear resistance are available according to customer requirements.

