



INSUTECH

International Company For Insulation Technology



DELIVERING
POWERFUL
INSULATION SOLUTIONS



INSUTECH

International Company For Insulation Technology

MANUFACTURING

LIKE NO OTHER

Complete Insulation Solutions since 1987:

INSUTECH is a leading manufacturer of waterproofing, thermal insulation and polystyrene foam materials that has been providing powerful insulation and decoration solutions to the global construction industry since 1987. Today we operate through three factories in a total area of 48,000m² and export to more than 100 countries worldwide. We are committed to delivering high-performance products to our customers while meeting international quality standards.

Product Range

- ◆ Cold-applied bituminous emulsions
- ◆ Modified bituminous membranes
- ◆ Self-adhesive membranes
- ◆ Bituminous protection boards
- ◆ Expanded polystyrene foam (EPS)
- ◆ Extruded polystyrene foam (XPS)
- ◆ Pre-coated (EPS)



ISO 9001: 2015
ISO 14001: 2015
ISO 45001: 2018



Exporting to **+100**



ONE-STOP SHOP FOR

- ◆ Waterproofing systems
- ◆ Thermal insulation
- ◆ Decoration elements



WIDE RANGE OF PRODUCTS

- ◆ Full in-house production
- ◆ Latest technology



GLOBAL REACH

- ◆ Products available worldwide
- ◆ Multilingual export team



AFTER-SALE SUPPORT



INSUTECH
International Company For Insulation Technology

Countries

And Still **Growing**



HIGHEST QUALITY

- ◆ Quality control on each batch
- ◆ In-house ISO certified Laboratory
- ◆ Certified Products



TAILORED SOLUTIONS

- ◆ Product development according to needs
- ◆ Private brand labelling services



STRATEGIC LOCATION

- ◆ Rapid shipments
- ◆ Short distance to international ports



APPLICATORS TRAINING PROGRAM

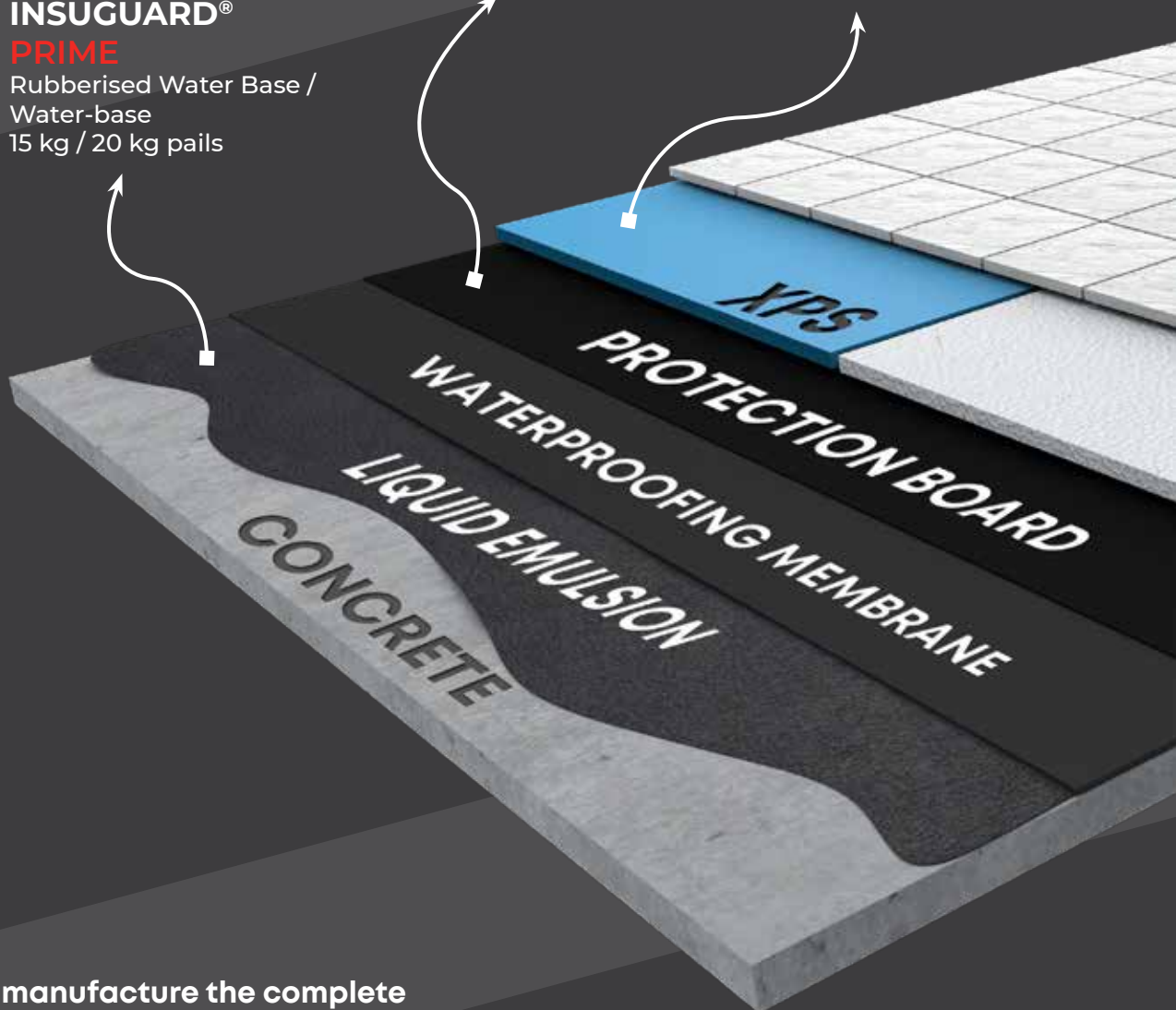
FULL INSULATION SYSTEM

**INSUCOAT/
INSUGUARD®
PRIME**

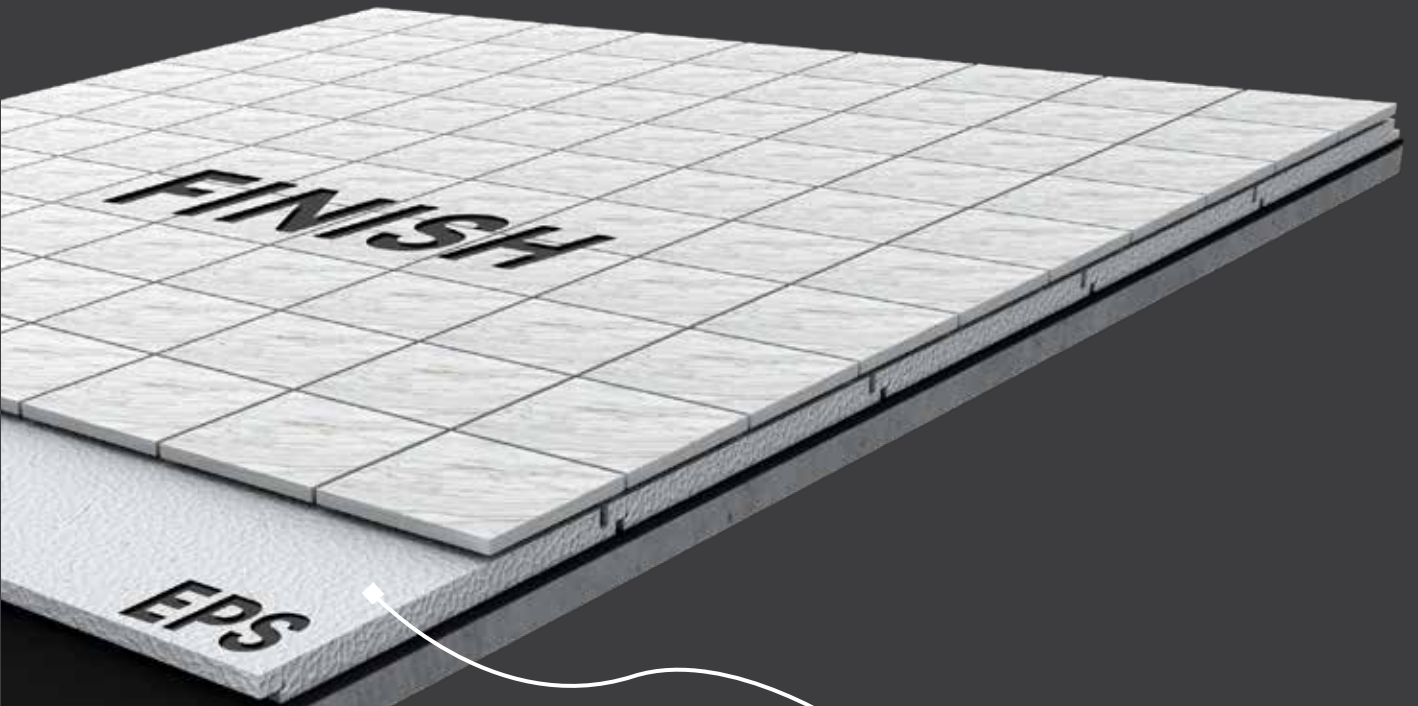
Rubberised Water Base /
Water-base
15 kg / 20 kg pails

**INSUBOARD®
PROTECT**
Thickness 3-6mm

**INSUTECH XPS®
THERMAL**
Thickness: 2-10 cm
Density 26-40 Kg/m³



 We manufacture the complete
insulation system in-house



INSUMEMBRANES®

SEAL

Cold Flexibility up to -25°C
Thickness 2-6 mm

INSUTECH EPS®

THERMAL

Thickness: Customized
Density 12-40 Kg/m^3



INSUCOAT® WB / RB

LIQUID BITUMINOUS EMULSION

INSUCOAT® is a cold-applied emulsion used as a priming coat between the surface and the waterproofing membrane. It serves as a first layer of an insulation system where it acts as a barrier to water vapor transmission and eliminates air gaps between the surface area and the membrane while plugging capillary voids and improving the durability of any waterproofing system. The product range consists of various grades of water-based and rubberized water-based liquid bitumen emulsions.

ADVANTAGES

- ◆ Applicable on damp surfaces
- ◆ Acts as a curing compound for concrete
- ◆ Versatile application with several economical benefits
- ◆ Non-flammable

APPLICATIONS

- ◆ Priming coat for waterproofing membranes
- ◆ Waterproofing and protective coating in foundations, basements, bathrooms and wet areas
- ◆ General waterproofing coating for both interior and exterior floors and walls

LIQUID BASE	Water Base / Rubberised Water Base
PACKING	15 kg / 20 kg pails
COVERAGE	1-3 m ² /kg/coat
SHELF LIFE	12 months



COLD
APPLIED



EXCELLENT
ADHESION



CHEMICAL
RESISTANT

انسوكوت
INSUCOAT

مستحلب بيتوميني
BITUMEN EMULSION

TECHNICAL DATA SHEET



PRODUCT			INSUCOAT WB®	INSUCOAT RB®
TEST	UNIT	TEST METHOD	RESULTS	
Form	-	-	Bitumen liquid emulsion with high viscosity	Bitumen rubberised liquid emulsion with high viscosity
Color	-	-	Dark Brown	Brown
Density, gm/cc (specific gravity)	gm/cc	ASTM D 2939	1.03 ±0.02	1.05 ±0.01
Solid content	%	ASTM D 2939	35 ±3	40 ±3
Drying time	hrs	ASTM D 2939	24	24
Time between two coats	hrs	-	3-4 (depending on temperature)	3-4 (depending on temperature)
Application Temperature	°C	-	10°C to under maximum temperature 45°C	5°C to under maximum temperature 45°C
Heat Test	-	ASTM D 2939	100 ±3 no blistering sagging or slipping	100 ±3 no blistering sagging or slipping
Resistance to water	-	WASTM D 2939	24 no blistering or re-emulsification	24 no blistering or re-emulsification

- ◆ INSUTECH reserves the right to modify product specifications due continuous product development without any prior notice.
- ◆ This publication revokes any previous one. Issue 11/© 2023



ISO 9001: 2015
ISO 14001: 2015
ISO 45001: 2018



INSUGUARD® WB / RB

LIQUID BITUMINOUS EMULSION

INSUGUARD® is a premium bitumen emulsion with a formula that consists of selected raw materials blended with a high content of bitumen that allows the emulsion to penetrate concrete surfaces. The film that forms can dampproof vapour barriers, acting as the ultimate protective shield for various waterproofing applications and surfaces subjected to aggressive soils. INSUGUARD® can also be used as a primer to prepare surfaces for bituminous membranes. The product range consists of various grades of both water-based and rubberized water-based liquid bitumen emulsions.

ADVANTAGES

- ◆ Deep concrete surface penetration
- ◆ Curing compound for concrete
- ◆ High coverage resulting in cost-efficient application
- ◆ Non-flammable

APPLICATIONS

- ◆ Priming coat for waterproofing membranes
- ◆ Waterproofing and protective coating in foundations, basements, bathrooms and wet areas
- ◆ General waterproofing coating for both interior and exterior floors and walls

LIQUID BASE	Water Base / Rubberised Water Base
PACKING	15 kg / 20 kg pails
COVERAGE	2-4 m ² /kg/coat
SHELF LIFE	12 months



COLD
APPLIED



NON
HAZARDOUS



CHEMICAL
RESISTANT



TECHNICAL DATA SHEET



PRODUCT			INSUGUARD WB®	INSUGUARD RB®
TEST	UNIT	TEST METHOD	RESULTS	
Form	-	-	Premium bitumen liquid emulsion with low viscosity	
Color	-	-	Brown dries to black	
Density, gm/cc (specific gravity)	gm/cc	ASTM D 2939	1 ±0.05	
Solid content	%	ASTM D 2939	50 ±2	
Bitumen Content	%	-	50 ±5	-
Bitumen & Rubber Content	%	-	-	50 ±5
Full Cure	hrs	ASTM D 2939	24	
Drying time (touch dry)	hrs	ASTM D 2939	1-2 at 25°C	
Time between two coats	hrs	-	3-4	
Application Temperature	°C	-	10°C to 50°C	
Heat flow resistance	-	ASTM D 2939	The cured film will not flow or sag under direct sunlight	
Resistance to water	-	ASTM D 2939	24hrs No blistering or re-emulsification	
Chemical Resistance	-	-	Resistance to alcohol, most salts and some dilute acids and alkalis. Not resistant to oil, solvents and strong detergent solutions	
Flash Point	-	-	Non- Flammable	
Ash Content	-	-	0-WW2%	
Viscosity	KU	-	90 ±10 @ 25°C	

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INSUMEMBRANE® APP

MODIFIED BITUMINOUS MEMBRANE

INSUTECH provides a wide selection of A-Tactical Polypropylene (APP) modified bituminous waterproofing membranes that offer a variety of properties to accommodate diverse requirements. To enhance its mechanical properties, the membranes can be reinforced with fibreglass or non-woven polyester carriers. Modifications to the compound and carriers enable us to customize our products to meet all projects' needs. This product is also available with Anti-Root properties for roof gardens and other green areas.

ADVANTAGES

- ◆ Absolute impermeability to water
- ◆ Superior dimensional stability
- ◆ Applicable for above and below grade uses
- ◆ Ease of adhesion to a wide variety of surfaces

APPLICATIONS

INSU® Membranes are used for a variety of waterproofing requirements and applications where the membrane is subject to constant movement and high stresses such as:

- ◆ Roofing of single or multi-layer systems
- ◆ Sloped and flat roofs
- ◆ Metal decks subject to significant movements
- ◆ Tunnels, wet areas, swimming pools and toilets
- ◆ Foundations and underground structures

Thickness	2-6mm
Reinforcements	Fiberglass / Non-Woven Polyester / Composite Polyester
Cold Flexibility Temperature	0°C → -15°C
Surface Finish	PE-film, colored slates, Aluminum, Sand



TORCH
APPLIED



HIGH
FLEXIBILITY



TEMPERATE/
TROPICAL
CLIMATES

TECHNICAL DATA SHEET



PRODUCT			INSUSOL®		INSUGRAND®		INSU-FORT®	INSU-EXTRA®	INSU-ULTRA®
TEST	UNIT	TEST METHOD	PES (140 GSM)	FG	PES (160 GSM)	FG	PES (180 GSM)	PES (200 GSM)	PES (220 GSM)
Cold Flexibility	°C	ASTM D-5147 EN 1109	0 → -4		-3 → -6		-5 → -8	-8 → -12	-12 → -15
Thickness	mm	EN 1849-1	3/4 ±5%	2/3/4 ±5%	3/4 ±5%	3/4 ±5%	3/4 ±5%	3/4 ±5%	3/4 ±5%
Width	m	EN 1848-1	1 ±1%	1 ±1%	1 ±1%	1 ±1%	1 ±1%	1 ±1%	1 ±1%
Length	m	EN 1848-1	10 ±1%	10 ±1%	10 ±1%	10 ±1%	10 ±1%	10 ±1%	10 ±1%
Straightness	mm	EN 1848-1	±10	±5	±6	±5	±6	±6	±6
Softening Point (R&B)	°C	ASTM D-36	≥150	≥150	≥150	≥150	≥150	≥150	≥150
Penetration @25°C	dmm	ASTM D-5	20 ±5	20 ±5	20 ±5	20 ±5	25 ±5	30 ±5	30 ±5
Penetration @60°C	dmm	ASTM D-5	70 ±20	70 ±20	70 ±20	70 ±20	80 ±20	100 ±20	100 ±20
Tensile Strength (max)									
Longitudinal	N/5cm	EN 12311-1	600 ±20%	500 ±15%	700 ±20%	500 ±15%	800 ±20%	900 ±20%	1050 ±20%
Transverse	N/5cm	EN 12311-1	400 ±20%	275 ±15%	450 ±20%	275 ±15%	500 ±20%	600 ±20%	750 ±20%
Elongation @ Break									
Longitudinal	%	EN 12311-1	35 ±15	≥2.5	40 ±15	≥2.5	45 ±15	45 ±15	50 ±15
Transverse	%	EN 12311-1	40 ±15	≥2.5	45 ±15	≥2.5	50 ±15	50 ±15	55 ±15
Tearing Strength (Nail-Shank)									
Longitudinal	N	EN 12310-1	≥140	≥90	≥160	≥100	≥180	≥200	≥220
Transverse	N	EN 12310-1	≥160	≥100	≥180	≥110	≥200	≥220	≥240
Resistance to static loading	Kg	EN 12730	≤10	≤5	≤15	≤5	≤20	≤20	≤20
Resistance to impact	mm	EN 12730	≤900	≤500	≤1000	≤500	≤1250	≤1250	≤1250
Flow Resistance at Elevated Temperature	°C	ASTM D-5147 EN 1110	120(-10)	120(-10)	120(-10)	120(-10)	120(-10)	120(-10)	120(-10)
Dimensional Stability									
Longitudinal	%	EN 1107-1	-0.5	Stable	-0.5	Stable	-0.5	-0.5	-0.5
Transverse	%	EN 1107-1	+0.5	Stable	+0.5	Stable	+0.5	+0.5	+0.5
Water Tightness	60 Kpa	EN 1928:2000	Pass						
Water Absorption	%	ASTM D-5147	≤ 1		≤ 1		≤ 1		
Joints Tensile Strength Shear L/T	N/5cm	EN 12317	500/300 ±20%	400/200 ±20%	600/350 ±20%	400/200 ±20%	650/400 ±20%	700/450 ±20%	700/450 ±20%
Thermal Ageing in air (in oven at 70± 2°C)	-	EN 1296	4 Weeks Passed						
Average Loss of Slates	%	EN 12039	≤ 30%	N/A	≤ 30%	N/A	≤ 30%	≤ 30%	≤ 30%

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INSUMEMBRANE® SBS

MODIFIED BITUMINOUS MEMBRANE

INSUTECH offers a diverse selection of Styrene-butadiene-styrene (SBS) modified bituminous waterproofing membranes with powerful properties to meet the demands of most construction projects. The membranes can be reinforced using fibreglass or nonwoven polyester carriers to enhance the mechanical characteristics. By adjusting the bitumen compound and utilizing these carriers, we are able to tailor our products to meet specific market requirements. This product is also available with Anti-Root properties for roof gardens and other green areas.

ADVANTAGES

- ◆ Absolute impermeability to water
- ◆ Good elongation and recovery
- ◆ Excellent elasticity
- ◆ Strong adhesion and seam integrity
- ◆ Superior dimensional stability
- ◆ Applicable for above and below grade uses

APPLICATIONS

INSU® Membranes are used for a variety of waterproofing requirements and in applications where the membrane is subject to constant movement and high stresses such as:

- ◆ Roofing of single or multi-layer systems
- ◆ Sloped and flat roofs
- ◆ Metal decks subject to significant movements
- ◆ Tunnels, wet areas, swimming pools and toilets
- ◆ Foundations and underground structures

Thickness	2-6mm
Reinforcements	Fiberglass / Non-Woven Polyester / Composite Polyester
Cold Flexibility Temperature	-10°C → -25°C
Surface Finish	PE-film, colored slates, Aluminum, Sand



TORCH
APPLIED



HIGH
FLEXIBILITY



COOLER
CLIMATES

TECHNICAL DATA SHEET



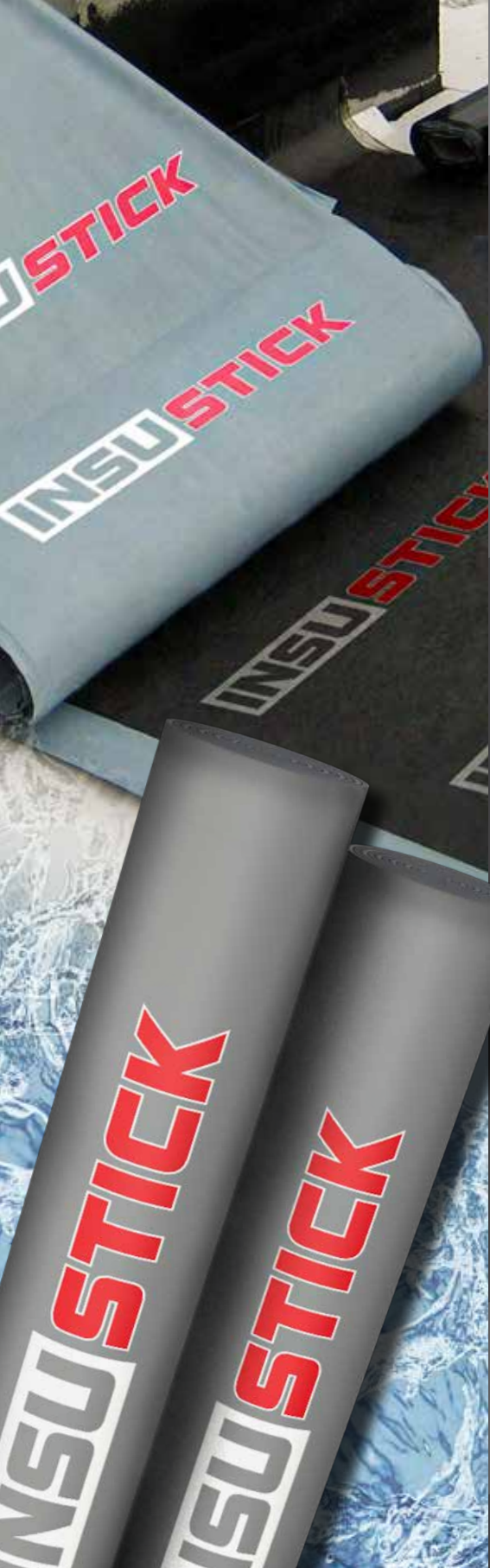
PRODUCT			INSUSTRETCH®		INSUBEND®	INSUPOLY®	INSUPRO®	INSUPRENE®
TEST	UNIT	TEST METHOD	PES (140 GSM)	FG	PES (160 GSM)	PES (180 GSM)	PES (200 GSM)	PES (220 GSM)
Cold Flexibility	°C	ASTM D-5147 EN 1109	-10 → -12		-12 → -15	-15 → -18	-18 → -22	-22 → -25
Thickness	mm	EN 1849-1	3/4 ±5%	2/3 ±5%	3/4 ±5%	4 ±5%	4 ±5%	4 ±5%
Width	m	EN 1848-1	1 ±1%	1 ±1%	1 ±1%	1 ±1%	1 ±1%	1 ±1%
Length	m	EN 1848-1	10 ±1%	10 ±1%	10 ±1%	10 ±1%	10 ±1%	10 ±1%
Straightness	mm	EN 1848-1	±6	±5	±6	±5	±5	±5
Softening Point (R&B)	°C	ASTM D-36	≥110	≥110	≥110	≥110	≥110	≥110
Penetration @25°C	dmm	ASTM D-5	35 ±5	35 ±5	35 ±5	35 ±5	35 ±5	35 ±5
Penetration @60°C	dmm	ASTM D-5	140 ±20	140 ±20	140 ±20	140 ±20	140 ±20	140 ±20
Tensile Strength (max)								
Longitudinal	N/5cm	EN 12311-1	600 ±20%	500 ±15%	700 ±20%	800 ±20%	900 ±20%	1050 ±20%
Transverse	N/5cm	EN 12311-1	400 ±20%	250 ±15%	450 ±20%	500 ±20%	600 ±20%	750 ±20%
Elongation @ Break								
Longitudinal	%	EN 12311-1	35 ±15	≥3	45 ±15	45 ±15	50 ±15	50 ±15
Transverse	%	EN 12311-1	40 ±15	≥3	50 ±15	50 ±15	55 ±15	55 ±15
Tearing Strength (Nail-Shank)								
Longitudinal	N	EN 12310-1	≥120	≥90	≥140	≥160	≥180	≥200
Transverse	N	EN 12310-1	≥140	≥100	≥160	≥180	≥200	≥220
Resistance to static loading	Kg	EN 12730	≤10	≤5	≤15	≤15	≤20	≤20
Resistance to impact	mm	EN 12730	≤900	≤500	≤1000	≤1000	≤1250	≤1250
Flow Resistance at Elevated Temperature	°C	ASTM D-5147 EN 1110	110(-10)	110(-10)	110(-10)	110(-10)	110(-10)	110(-10)
Dimensional Stability								
Longitudinal	%	EN 1107-1	-0.5	Stable	-0.5	-0.5	-0.5	-0.5
Transverse	%	EN 1107-1	+0.5	Stable	+0.5	+0.5	+0.5	+0.5
Water Tightness	60 Kpa	EN 1928:2000	Pass					
Water Absorption	%	ASTM D-5147	≤ 1		≤ 1	≤ 1		
Joints Tensile Strength Shear L/T	N/5cm	EN 12317	400/200 ±20%	400/200 ±20%	550/300 ±20%	600/400 ±20%	700/450 ±20%	750/450 ±20%
Thermal Ageing in air (in oven at 70± 2°C)	-	EN 1296	4 Weeks Passed					
Average Loss of Slates	%	EN 12039	30%	N/A	30%	30%	30%	30%

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INSUSTICK®

SELF ADHESIVE MEMBRANES

INSUTECH's self-adhesive membrane range consists of flexible membranes that provide an excellent barrier against vapour all through easier and safer application than traditional methods. The membrane has a firm release film on the bottom layer, while the upper surface is covered with either PE film or slated minerals.

ADVANTAGES

- ◆ Fast and easy application
- ◆ Excellent adhesion to any surface
- ◆ Safe application
- ◆ Simplified vertical application
- ◆ Ideal adhesion on overlaps
- ◆ No shape limitation
- ◆ Eco-friendly

APPLICATIONS

INSUTECH's Self Adhesive Membranes (PES) are used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses such as:

- ◆ Roofing for single or multi-layer systems
- ◆ Tunnels, wet areas, and toilets
- ◆ Foundations and underground structures
- ◆ Slab on grade – only with use of INSUBOARD®

Thickness	1.5 - 4mm
Reinforcements	Fiberglass / Non-Woven Polyester
Cold Flexibility Temperature	-12°C → -25°C
Surface Finish	Pe-film, Colored Granules, Sand, Aluminum



STRONG
ADHESION



EASY
APPLICATION



COLD APPLIED

TECHNICAL DATA SHEET



TEST	UNIT	TOLERANCE	TEST METHOD	INSUSTICK		INSUSTICK PLUS		INSUSTICK PRO	
				PE	Cross Laminated	PE	Cross Laminated	PE	Cross Laminated
Surface Finish	-	-	-	PE	Cross Laminated	PE	Cross Laminated	PE	Cross Laminated
Cold Temperature Flexibility	°C	MLV ≤	EN 1109	-12 to -15	-12 to -15	-15 to -20	-15 to -20	-20 to -25	-20 to -25
Thickness	mm	MDV ±5%	EN 1849-1	1.5	1.5&2	1.5&2	1.5&2	1.5&2	1.5&2
Width	m	MDV ± 1%	EN 1848-1	1	1	1	1	1	1
Length	m	MDV ± 1%	EN 1848-1	10, 15, & 20	10, 15, & 20	10, 15, & 20	20	10, 15, & 20	10, 15, & 20
Tensile Strength (max)									
Longitudinal	N/5cm	MDV ± 20%	EN 12311-1	450	450	450	450	450	450
Transverse	N/5cm	MDV ± 20%	EN 12311-1	300	300	300	300	300	300
Elongation @ Break									
Longitudinal	%	MDV ± 15%	EN 12311-1	30	30	30	30	30	30
Transverse	%	MDV ± 15%	EN 12311-1	35	35	35	35	35	35
ELONGATION % Film									
Longitudinal	%	MLV ≥	ASTM D 638	NPD	150	NPD	150	NPD	150
Transverse	%	MLV ≥	ASTM D 638	NPD	150	NPD	150	NPD	150
SHEAR RESISTANT OF JOINTS									
Longitudinal	N/5cm	MLV ≥	EN 12317-1	200	200	150	200	200	200
Transverse	N/5cm	MLV ≥	EN 12317-1	140	140	150	180	180	180
Peel Resistant of Joints	N/5cm	MDV ± 10%	EN 12316-1	20	20	50	50	65	65
Resistance to Static Loading	kg	MLV ≤	EN 12730	5	5	5	5	5	10
Resistance to Impact Loading	mm	MLV ≤	EN 12691	500	500	500	500	500	1000
Flow Resistance at Elevated Temperature	°C	MDV - 10	EN 1110	90	90	90	90	90	90
External Fire Performance	-	-	EN 13501-5	F _{roof}	F _{roof}	F _{roof}	F _{roof}	F _{roof}	F _{roof}
Reaction to Fire	-	-	EN 13501-1	F	F	F	F	F	F
Water Tightness Method A	60 Kpa	MLV ≤	EN 1928:2000	PASS	PASS	PASS	PASS	PASS	PASS

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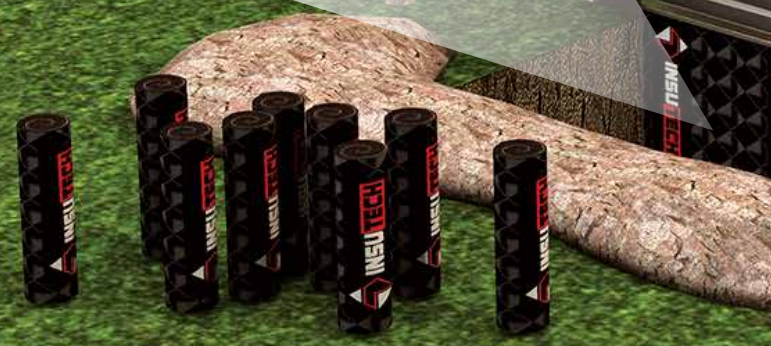
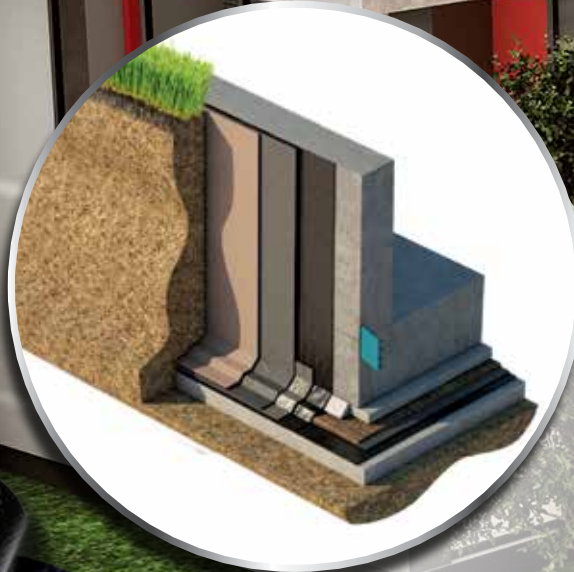


ISO 9001:2015
ISO 14001:2015
ISO 45001:2018



ANTI-ROOT MEMBRANES

INSUTECH ANTI-ROOT is a plastomeric / elastomeric modified bitumen membrane manufactured in a high-tech calendaring process, which involves the saturation and coating of a polyester carrier with a polymer-modified bitumen compound. Anti-root additives are included in the compound to allow the membrane to better resist the piercing force created by the growth of roots, ensuring long-lasting protection against potential damage.





APPLICATIONS

INSUTECH ANTI-ROOT membranes are used for a wide variety of waterproofing applications where root penetration resistance and high mechanical stress resistance required, such as:

- ◆ Roofing for single or multilayer systems
- ◆ Roof gardens & green areas
- ◆ Sloped and flat roofs
- ◆ Terraces



INSUTECH
International Company For Insulation Technology



NATIONAL
ROOFING
CONTRACTORS
ASSOCIATION
MEMBER



ISO 9001: 2015
ISO 14001: 2015
ISO 45001: 2018



CE
1029

SURFACE FINISHED MEMBRANES

Our waterproofing membranes are available with mineral, aluminum and sand surface finishes for maximum UV protection. Such surface finishes preserve the bitumen layer from UV rays and keep the insulation long-lasting due to its high resistance to aging while improving the roof's aesthetics.

ADVANTAGES

- ◆ Mechanical protection against light foot traffic and roof maintenance
- ◆ Aesthetic surface finish
- ◆ UV-reflective
- ◆ Cooler roofs (with aluminum finish)

APPLICATIONS

- ◆ Exposed roofing applications
- ◆ Ideal for re-roofing applications

SLATED MINERALS



RED



TREATED
GRAY



GREEN



GRAY

SAND



YELLOW
SAND



WHITE
SAND

ALUMINUM



ALUMINUM



BLACK



WHITE



BROWN



COLOUR
OPTIONS



UV PROTECTION



LIGHT FOOT
TRAFFIC



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ISO 45001: 2018



INSUTECH
International Company



INSUBOARD®

MODIFIED BITUMINOUS PROTECTION BOARD

INSUBOARD® is a rigid, high-quality, semi-flexible modified bituminous board used as a protection layer for various waterproofing solutions. INSUBOARD® consists of a modified bitumen compound embedded between two layers of reinforcements, such as fibreglass or composite mat, providing a robust protection board with superior resistance to damage.

ADVANTAGES

- ◆ Vertical and horizontal application
- ◆ High tolerance to normal soil and structure movement
- ◆ Resistant to penetration of back filling materials and accidental damages from site operations
- ◆ Cost saving by eliminating the need for screed and masonry protection
- ◆ Resistant to chemicals and salts found in soil

APPLICATIONS

- ◆ Permanent protection to most waterproofing and damp proofing systems during construction works
- ◆ Walk pads on site to withstand shock from foot traffic
- ◆ Expansion joint filler for concrete slab and wall construction
- ◆ Protection board for pressure-sensitive layers

REINFORCEMENT	Double layer - Customized
SIZE	1m x 2m or customized
THICKNESS	3mm to 6mm



PUNCTURE
RESISTANT



WATER
RESISTANT



IMPACT
RESISTANT

TECHNICAL DATA SHEET



PRODUCT		INSUBOARD®				
TEST	UNIT	TEST METHOD	TOLERANCE	RESULTS		
Thickness	mm	EN 1849-1	MDV ±(5%)	3	4	6
Width	m	EN 1849-1	MDV ±(1%)	1		
Length	m	EN 1849-1	MDV ±(1%)	2		
Mass per Unit Area	Kg/m ²	EN 1849-1	MDV ±(5%)	4.5	5.9	8.8
Resistance to Static Loading	Kg	EN 12730	MLV ≤	5	10	15
Resistance to Impact Loading	mm	EN 12691	MLV ≤	500	700	900
Flow Resistance at Elevated Temperature	°C	EN 1110	MDV - 10	110		
External Fire Performance	-	EN 13501 -5	-	F _{roof}		
Reaction To Fire	-	EN 13501 -1	-	F		

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INSUTECH XPS®

EXTRUDED POLYSTYRENE FOAM (XPS)

INSUTECH's Extruded Polystyrene foam (XPS) is a rigid board manufactured through a continuous extrusion process of polystyrene. It reduces electricity consumption through its application by minimizing the need for indoor cooling/heating and air conditioning. XPS is available in a wide selection of thicknesses and comes in a standard blue colour, either with a fat edge profile or a lapped overlap edge profile.

ADVANTAGES

- ◆ Superior thermal insulating performance
- ◆ Low thermal conductivity
- ◆ Reduced electric power consumption
- ◆ High resistance to water penetration
- ◆ Prevents the in high intensification of moisture in walls
- ◆ Light weight and easily bonded

APPLICATIONS

- ◆ Roof insulation
- ◆ Wall insulation
- ◆ Floor insulation
- ◆ Thermal insulation for refrigeration cabinets
- ◆ Sound proofing

THICKNESS	2-10 cm
DENSITY	26-40 kg/m ³
COLOR	Blue

LAPPED EDGE



STRAIGHT EDGE



FIRE
RETARDANT



SUPERIOR
COMPRESSIVE
STRENGTH



ELECTRICITY
SAVING

TECHNICAL DATA SHEET



PRODUCT	INSUTECH® XPS				BLUEFOAM®	ISOFOAM®	INSUFOAM®	
PROPERTIES	CODE	TEST METHOD	DESCRIPTION		UNIT	VALUE		
Density	-	BDS EN 1602	-	-	Kg/m ³	30-32	32-36	36-40
Thermal Conductivity	λD	EN 12667:2004	Value measured at a mean temperature of 10°C		-	w/m.k	0.03	0.03
Thermal Resistance	RD	EN 12667:2004	Value measured at a mean temperature of 10°C related to thickness RD=d/D		m ² K/W	30 mm	1.0	1.0
			40 mm	1.3		1.3		
			50 mm	1.7		1.7		
			60 mm	2.0		2.0		
Compressive Strength	CS(10/Y)	EN 826:2004	@10 % deformation		KPa	250	300	450
Dimensional Stability	DS(TH)	EN 826:2004	Test conditions (storage for 48h at 70°C -90% relative humidity) variation in thickness		%	< 5	< 5	< 5
Fire Rating	Euro Class	EN 13501 -1	value measured at a mean Temperature of 22 °C		-	E	E	E
Specific Heat	-	EN 12524	-		J/(Kg.K)	1200	1200	1200
Water diffusion resistance	MU	EN 12086:2013	Value measured at a mean temperature of 22°C		μ	≥200	≥200	≥200
Water absorption by immersion	WL(T)	EN 12086:2013	Total immersion for 28 days, method 2A		% volume	≤0.7	≤0.7	≤0.7
Tensile strength perpendicular to faces	-	EN 1607:2013	30 mm		KPa	≥400	≥400	≥400
			50 mm			≥600	≥600	≥600
Temperature limit	-	-	-		°C	70	70	70

- ◆ INSUTECH reserves the right to modify product specifications due continuous product development without any prior notice.
- ◆ This publication revokes any previous one. Issue 11/© 2023



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018





INSUTECH EPS[®]

EXPANDED POLYSTYRENE FOAM (EPS)

INSUTECH manufactures various EPS products, including thermal insulation sheets, by injecting polystyrene into large mould blocks. The products are available in a wide selection of different densities and dimensions. INSUTECH also manufactures Insulated Concrete Forms (ICF), Hordy Blocks, Geofoam, and other polystyrene building products.

ADVANTAGES

- ◆ High thermal insulation
- ◆ Energy saving
- ◆ Lightweight
- ◆ Fire retardant
- ◆ High compressive strength
- ◆ Reduces loads imposed on adjacent and underlying soils and structures
- ◆ Lowers construction cost

APPLICATIONS

- ◆ Wall insulation
- ◆ Floor insulation
- ◆ Floor raising
- ◆ Geofoam & Landscaping
- ◆ Lightweight void fill
- ◆ Thermal insulation for refrigeration cabinets

THICKNESS	Customized
DENSITY	12-40Kg/M ³
COLOR	White



LIGHTWEIGHT



SUPERIOR
COMPRESSIVE
STRENGTH



ELECTRICITY
SAVING

TECHNICAL DATA SHEET



PRODUCT		INSUTECH® EPS								
PROPERTIES	CODE	TEST METHOD	DESCRIPTION	UNIT	RESULTS					
Density	-	-	-	Kg/m ³	15 ±5%	20 ±5%	25 ±5%	30 ±5%	35 ±5%	
Thermal Conductivity	λD	EN 12667	Value measured at a mean temperature of 10°C	W/m K	≤0,036	≤0,035	≤0,034	≤0,033	≤0,032	
Thermal Resistance	RD	EN 12667	related to thickness RD=d/D	(m ² K)/W	30 mm	0.83	0.86	0.88	0.91	0.94
					40 mm	1.1	1.14	1.18	1.21	1.25
					50 mm	1.39	1.43	1.47	1.52	1.56
					60 mm	1.67	1.71	1.76	1.82	1.87
Compressive Strength	CS (10/Y)	EN 826	compression to 10% of thickness	KPa	≥70 CS(10)70	≥100 CS(10)100	≥150 CS(10)150	≥200 CS(10)200	≥250 CS(10)250	
Tensile Strength	TR	EN 1607	-	KPa	≥70 TR70	≥100 TR100	≥150 TR150	≥200 TR200	≥250 TR250	
Bending Strength	BS	EN 12089	-	KPa	≥115 BS115	≥150 BS150	≥200 BS200	≥250 BS250	≥350 BS350	
Dimensional Stability	DS(70)3	EN 1604	Test conditions (storage for 48h at 70°C -90% relative humidity)	%	3	3	3	3	3	
Specific Heat	-	EN 12524	-	J/(kgk)	1450	1450	1450	1450	1450	
Water vapor diffusion resistance	MU	EN 12086	-	μ	20 - 40	30 - 70	30 - 70	40 - 100	40 - 100	
Water absorption by immersion	WL(T)	EN 12087	Total immersion for 28 days	% volume	≤ 3 WL(V)3	≤ 3 WL(V)3	≤ 3 WL(V)3	≤ 3 WL(V)3	≤ 3 WL(V)3	
Water absorption by diffusion	WD(v)	EN 12088	-	% volume	≤ 3 WD(V)3	≤ 3 WD(V)3	≤ 3 WD(V)3	≤ 3 WD(V)3	≤ 3 WD(V)3	
Temperature limit	-	-	-	°C	70	70	70	70	70	

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ISO 9001: 2015
ISO 14001: 2015
ISO 45001: 2018



QUALITY CERTIFICATES



ISO 9001: 2015
ISO 14001: 2015
ISO 45001: 2018



BUREAU
VERITAS



SGS

SGS KENYA





INSUTECH
International Learning For Excellent Technicians





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