



# SELF-DAN<sup>®</sup> PE PLUS

Bituminous self-adhesive membrane for  
basements and below ground structures



Waterproofing



Insulation



Drainages - Geotextiles



Skylights

**danosa**  
Building together

# DESCRIPTION

Bituminous waterproofing membrane manufactured with bituminous selected mastic modified with high performance SBS polymers, this will provide self-healing properties, easy application and great durability.

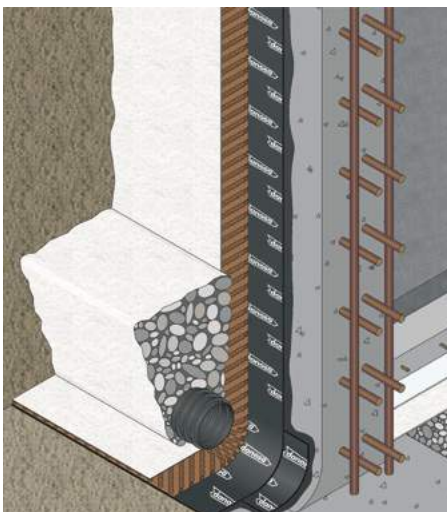
As a top layer it has a cross laminated HDPE film, which will provide better mechanical resistance, puncture resistance (static and dynamic), high elongation and high dimensional stability characteristics.



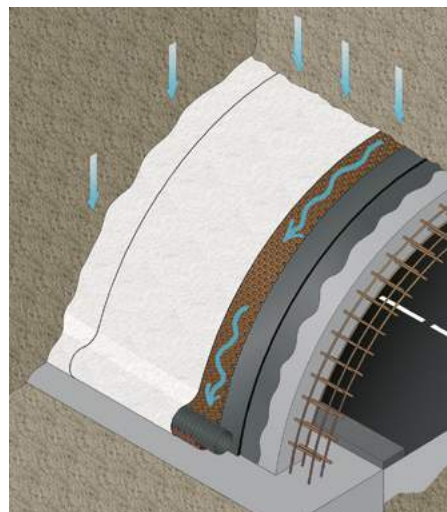
## ADVANTAGES AND BENEFITS

- Watertightness: Resistance to hydrostatic head up to 60 m of water.
- Crack Bridging properties due to >300% compound elongation, this will allow to accommodate movements in the building structure.
- Excellent mechanical properties in all directions (stability, tear strength and tensile strength) due to the cross laminated polyethylene film (HDPE) finish.
- Excellent puncture and impact resistance due to the cross laminated polyethylene film (HDPE) finishing.
- Elastic behavior (memory).
- Self-Healing Properties, minor perforation will automatically heal.
- Application at room temperature (application > 10°C).
- Easy and fast application, no torch is necessary.
- Easy to apply at complex geometries.
- Total flexibility of the material, and perfect accommodation to the support.
- Controlled thickness in factory ensuring constant error-free site application.
- Great productivity in the installation.
- Excellent adhesion to the support.
- Easy to repair in case of accidental damage.
- Preserve its properties in long term due to SBS compound.
- High durability of the waterproofing due to the SBS elastomer compound of the membrane.
- High chemical, oxidation and microbiological resistance.
- Prestige product from European Manufacturer following European and American Standards.
- Excellent Electrical resistance properties.

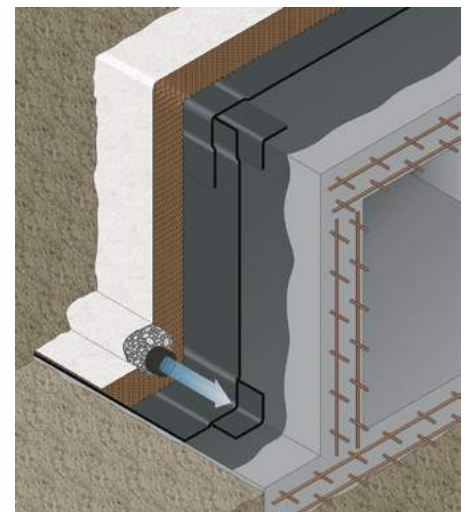
## APPLICATIONS



Basement walls



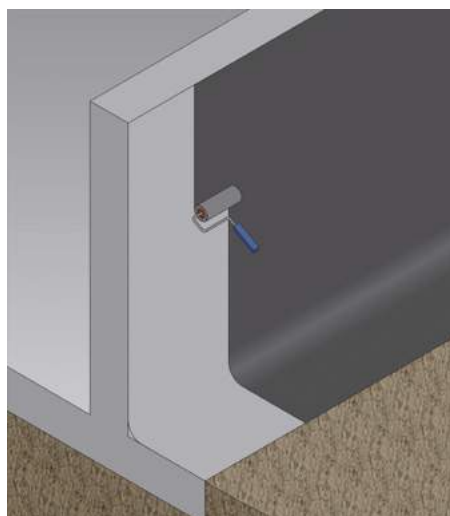
Tunnels



Substructures

Technical Data	Value	Unit	Standard
Thickness	1.5	mm	-
Tensile strength	220 ± 80	N/5cm	UNE-EN 12311-1
Tensile strength	2300 ± 200	kPa	ASTM D412
Elongation at break	≥ 300	%	UNE-EN 12311-1
Elongation at break	≥ 300	%	ASTM D412
Resistance to static loading (B Method)	≥ 20	kg	UNE-EN 12730
Puncture resistance	275 ± 50	N	ASTM E154
Resistance to impact (flexible: EPS)	≥ 900	mm	UNE-EN 12691
Longitudinal resistance to tearing (nail shank)	150 ± 50	N	UNE-EN 12310-1
Tear resistance	23 ± 5	N	ASTM D1004
Joint strenght: shear resistance	220 ± 80	-	UNE-EN 12317-1
Flexibility at low temperature	< -15	°C	UNE-EN 1109
Watertightness (60 kPa)	Pass	-	UNE-EN 1928
Resistance to hydrostatic head (60 m of water)	Pass	-	ASTM 5385
Hydrostatic pressure (3 bar for hour)	Pass	-	DIN 16726
Bond strength (to concrete)	≥ 0.5	N/mm <sup>2</sup>	UNE-EN 13596
Peel strength	1600 ± 200	N/m	ASTM D903
Crack bridging ability (5 mm – 10.000 cycles)	-10	°C	UNE-EN 14224
Microbiological resistance (30 weeks)	Pass	°C	UNE-EN 14225
Resistance to oxidation (85 °C – 90 days)	Pass	°C	UNE-EN 14575
Dimensional stability at elevated temperature	< 0.5	%	UNE-EN 1107-1
Humidity resistance factor	115.000	-	UNE-EN 1931
Humidity flow density coefficient	2.56, Exp-9	Kg(m <sup>2</sup> .s)	UNE-EN 1931
Water vapour transmission	-	g/m <sup>2</sup> .day	ASTM E96
Dielectric strength (in air, 25 °C Cl. N° 12.1.1)	9,6	kV/mm	ASTM D149-09
Volume resistivity (500 V dc – 60 s Cl. N° 12.2)	6,3 x 10 <sup>14</sup>	Ohm.cm	ASTM D257-14

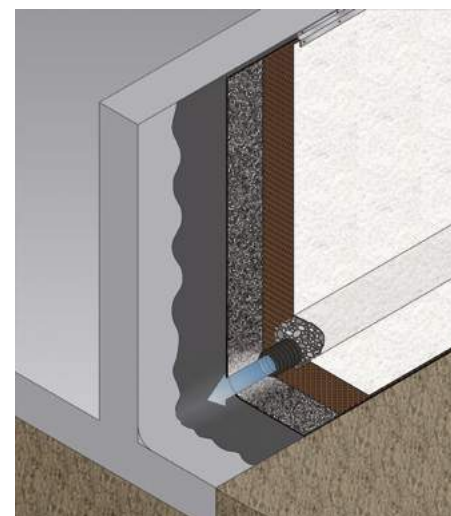
## INSTALLATION



Priming



Waterproofing



Protection

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