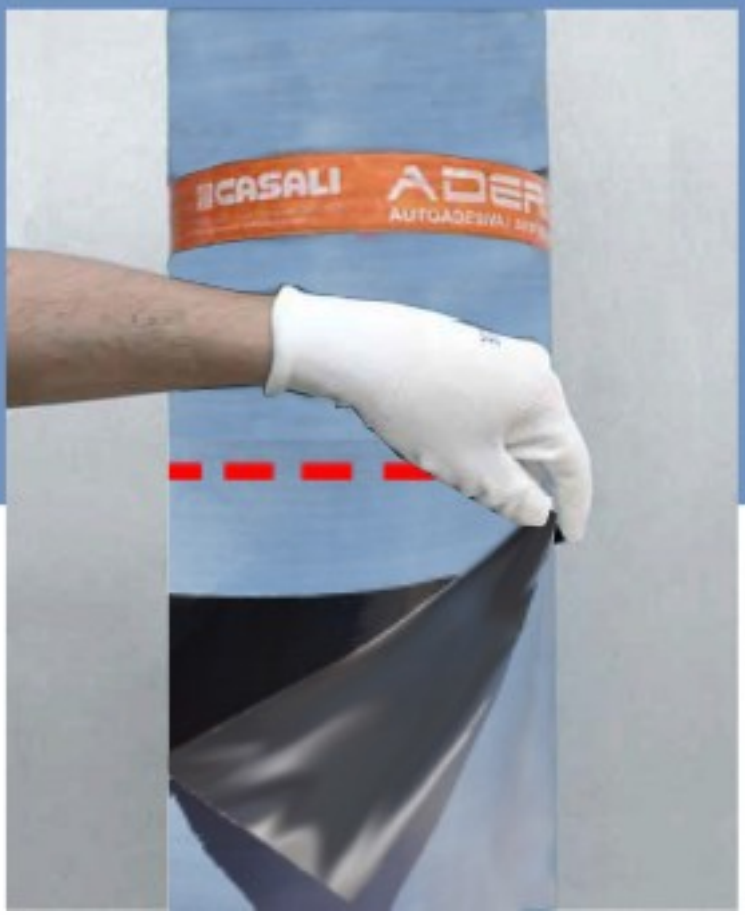
ADERIX

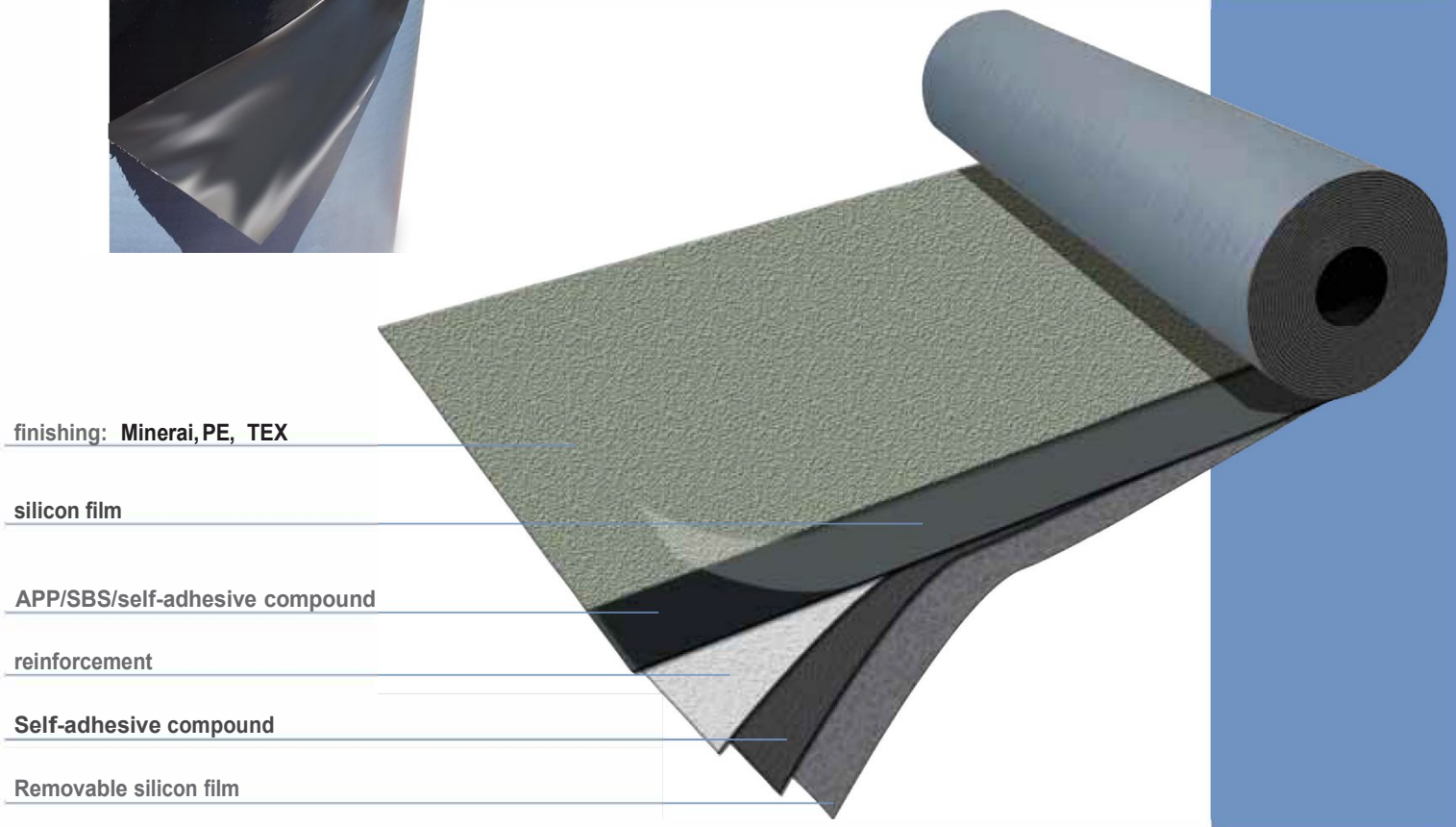


The reliable self-adhesive membrane

CASALI

The Self-Adhesive membrane

Lower silicon film with overlap flap



Stratigraphic spectrum of the membrane

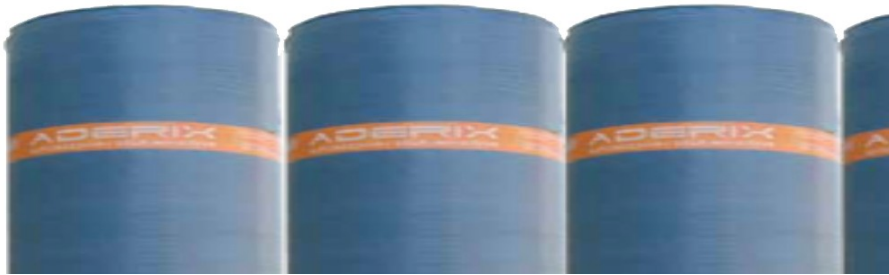
The self-adhesive compound employed in the ADERIX membranes is made of:

- **bitumen with high adhesive capacity;**
- **selected high-performance elastomeric polymers for appropriate modulation of the compound thermal parameters;**
- **adhesion enhancing resins capable of maintaining their adhesive power over time.**

The result is a line of membranes made with:

1. **a double-coated APP/self-adhesive compound featuring an aluminum reinforcement combined with reinforced polyester, used as a vapor barrier to protect the thermal insulation layer;**
2. **a self-adhesive APP/self-adhesive compound or, upon request, SBS/SA compound with a reinforced polyester reinforcement and a top finish of PE film - natural slate - PP fabric.**

In all these cases, a removable silicone-coated film selvedge is applied. The use of dual-compound membranes ensures that the self-adhesive compound is concentrated in the part of the membrane in contact with the resistant substrate, thus offering a high-performance top finish suitable for full-adhesive or traditional flame-bonded applications.



Application Procedure

ADERIX

is the Casali line of cold-laid waterproofing membranes.

INTRODUCTION

The Aderix professional range of membranes is specifically designed for technical waterproofing applications carried out by qualified personnel.
The excellent adhesive and waterproofing properties of this specialized compound must be safeguarded from external factors such as ambient temperature and improper installation practices.
Under no circumstances should the membrane be subjected to mechanical stress, including crushing or damage to the waterproofing surface caused by foot traffic. All installation activities performed on-site must fully comply with the technical specifications contained in this document.
Aderix self-adhesive membranes can be applied at ambient temperatures ≥ 15 °C, on compliant*, smooth, dry, and clean substrates.
Installation is also possible at temperatures down to +10 °C, provided that adhesion is enhanced by heating the self-adhesive surface with suitable hot-air equipment.
Ensure that the substrate is compatible and pre-treated with an appropriate adhesion primer.
For cementitious substrates, the moisture content must be below 1.5%.
The minimum recommended site temperature for installation is +5 °C. Below this value, application should not proceed due to the risk of humidity or wet surfaces compromising adhesion.
During summer conditions or temperatures above +25 °C, the membrane should be applied only after being stored indoors and protected from direct sunlight or heat sources that may prematurely activate the adhesive compound.
On-site, ensure that pallets and rolls are protected from direct light and heat before installation. If site temperatures exceed +25 °C, ventilation holes may be made in the pallet wrapping to reduce internal temperature and promote airflow.
Before installation, individual rolls must be stored upright to prevent their own weight from causing premature adhesion of the silicone release film to the compound.

MECHANICAL FASTENING ON DISCONTINUOUS (PITCHED) ROOFS

Before installation, evaluate the slope of the area to be covered and ensure that all sheets are properly positioned and securely anchored to the substrate.
Application on low- or high-pitched roofs must always be performed using appropriate mechanical fasteners, consisting of screws and metal washers, positioned along the upper edge and longitudinally beneath the selvedge.

- For low-pitched roofs, the rolls should be installed parallel to the eaves.
- For high-pitched roofs, the rolls should be installed orthogonal (perpendicular) to the eaves, ensuring that the sheet joints are staggered during installation to prevent alignment of seams.

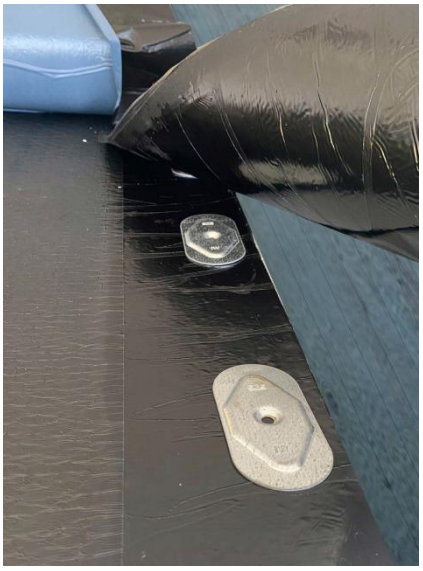
In both cases, the fastening pattern must be respected as follows:

- 20 cm spacing along the long side of the sheet
- 10 cm spacing along the short side of the sheet

Place the fastening under the selvedge

spaced 20 cm apart lengthwise

place all the fixings



hiding the fixings under the selvedge

During installation, it is advisable to re-roll all joints and critical points (corners, folds, and connections) using a roller weighing approximately 5 kg/lm to promote contact and complete adhesion between the surfaces.

Application Procedure

Full double-layer - Aderix system
In case of a full Aderix double layer system,, the base sheet must be chosen from the Aderix SS range, while the cap-sheet must be installed in the same direction as the first, staggering the lateral joint by 50 cm (half a sheet) to the first one. This staggering method prevents the joints from aligning and improves the water-tightness and durability of the system.

Mechanical Fasteners for Highly Sloped or Exposed Roofs
When the roof slope exceeds 10-15%, or in any situation where the wind kinetic action calculation according to local winduplift standard requirement indicates significant uplift forces, it is necessary to install mechanical fasteners consisting of screws with metal washers to distribute the load. These fasteners should be placed especially at the longitudinal (head) and lateral overlaps of the sheets. Fasteners located under the selvedge are then protected with the overlying membrane (the next sheet) to prevent water infiltration. The spacing between fastenings must be planned taking into account the division of the roofing zones into "corner," "perimeter," "semi-center," and "center," as wind loads differ in each zone. It is recommended to provide mechanical fastening lines near the vertical folds, at least every 25–30 cm, especially for large flat roofs or in the absence of heavy ballast.

Good practice when using insulation and wooden substrates:
When using insulation (especially expanded polystyrene, EPS), this must be bonded to the substrate adequately to resist wind uplift forces. This is achieved by inserting appropriate anchors and plates according to your local wind uplift standard requirement. When using thermal insulation, the adhesive strength may be stressed by the thermal resistance of the insulation panels. This can lead to sagging of the self-adhesive compound or slippage of the membrane on the inclined surface (if not mechanically anchored). In such cases, it is always necessary to separate the Aderix self-adhesive membrane from the insulation system, providing a ventilation chamber and mechanical fastening.

For wooden substrates made from closely spaced boards, it is recommended not to apply the Aderix membrane directly to discontinuous substrates. This prevents the adhesive mixture from reviving during warmer periods, which could cause it to become fluid and penetrate the joints and seep under the boards. Application on continuous substrates is always recommended.

APPLICATION PROCEDURE
1) Apply a suitable adhesion promoter such as **Casali Dermaprimer / Idroprimer** to suitable, clean, dry surfaces, especially on wooden surfaces with a resin-coated surface treatment
(photo 1);
2) Unroll the roll of Aderix, position it correctly on the surface, and fold it in half, removing half of the lower silicone film (photos 2a / 2b);
3) Lay the membrane without the silicone protection on the surface previously treated with adhesion promoter, taking care to avoid creating undulations;
4) Fold the second half of the roll in half, removing the second half of the lower silicone film (photos 2c / 2d);
5) Lay the second half of the membrane without the silicone protection on the primed surface.
6) Apply simple pressure to the entire surface of the sheet using a 5 kg roller (photo 6a / 6b);
7) To join the sheets laterally, use the lateral overlap with a selvedge, from which the silicone film must be removed (photo 4b);
8) For end overlaps, in the case of slate and non-woven fabric finishes, we recommend removing the grit and applying a coat of bituminous mastic such as **DERMARUBBER STICK**, followed by suitable mechanical fastening.

ADERIX RANGE - INSTALLATION INSTRUCTIONS FOR BLACK FINISH BASE SHEET

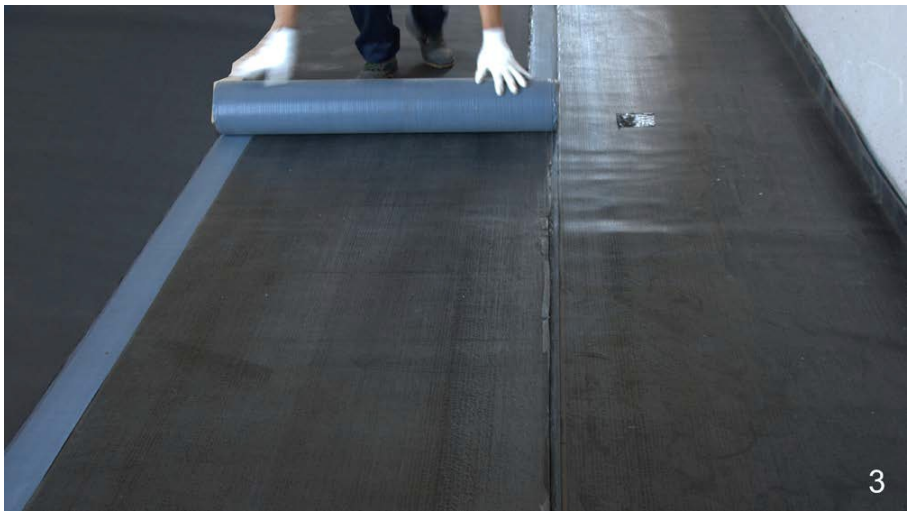
Step 1: The Aderix self-adhesive membrane must be laid on the substrate previously treated with primer, or directly over the thermal insulation boards that have been previously installed and securely fixed to the support

Step 2

1.a/b Fold back half of the roll surface and remove the lower silicon release film

2.c/d Fold back the second half of the roll surface and remove the remaining lower silicon release fil

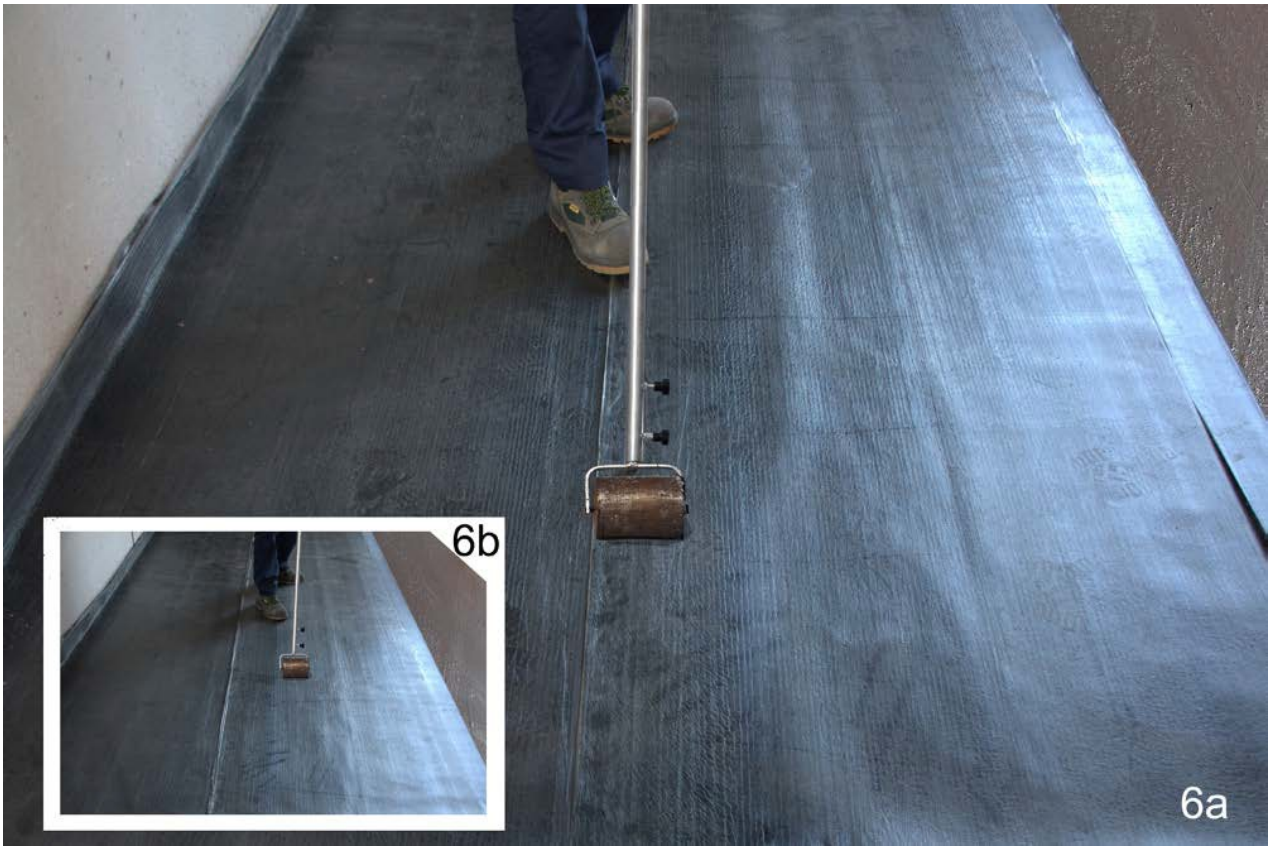
Step 3 Alignment and installation of the second Aderix self-adhesive membrane roll on the prepared substrate



Step 4
4.a/b Folding back half of the surface of the second roll and removing the silicon release film from the selvedge of the applied membranes.
4.c/d Removal of the lower silicon release film and overlapping along the selvedge of the previously applied membrane..

Step 5 Folding of the second half of the roll surface and removal of the silicone film.

Step 6.a/b Pressing of the longitudinal joints and the current surface with metal roller

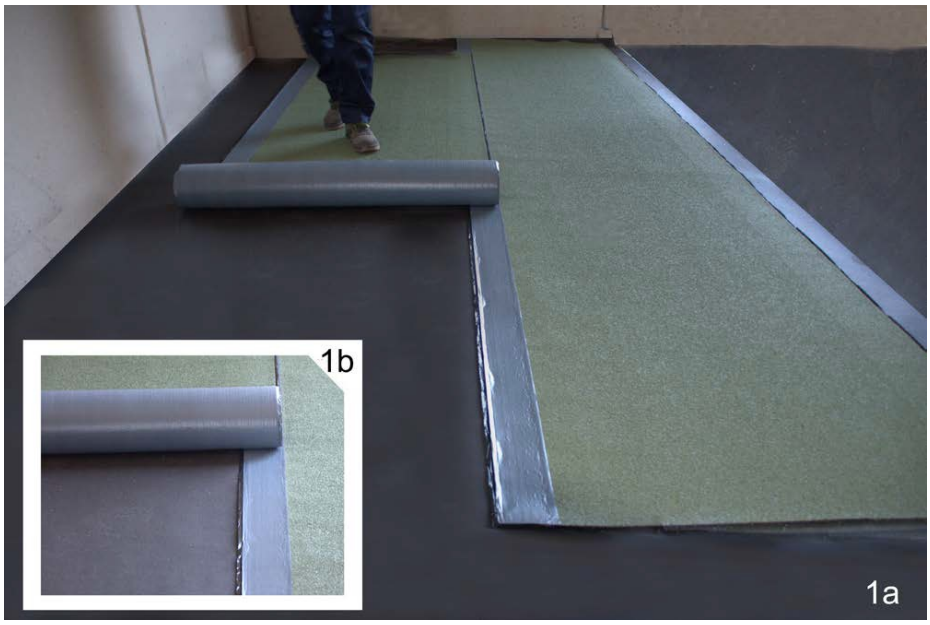


Step 7.a/b: Creation of the perimeter vertical flaps

Step. 8.a/b/c/d: Detail of internal and external corners

ADERIX RANGE - INSTALLATION INSTRUCTIONS FOR MINERAL SELF-PROTECTION CAP SHEET

Step 1 Positioning and matching of **ADERIX MINERAL** rolls

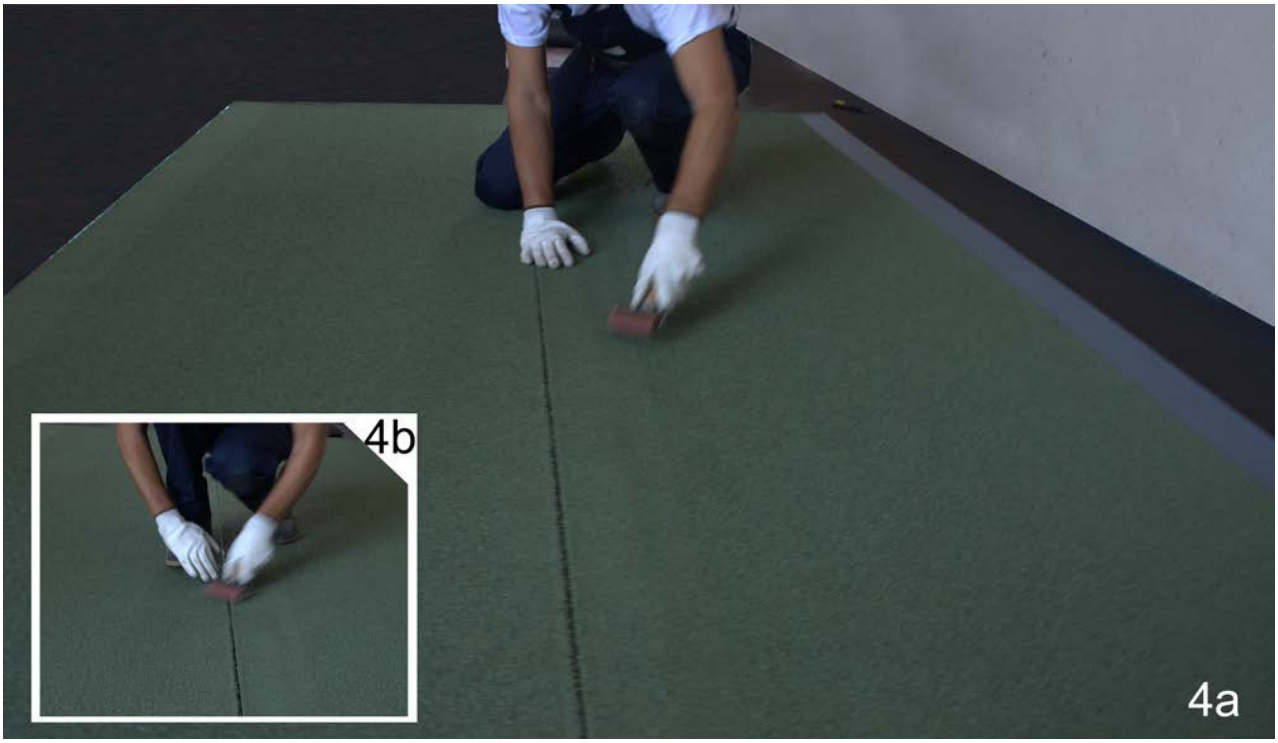


Step 2

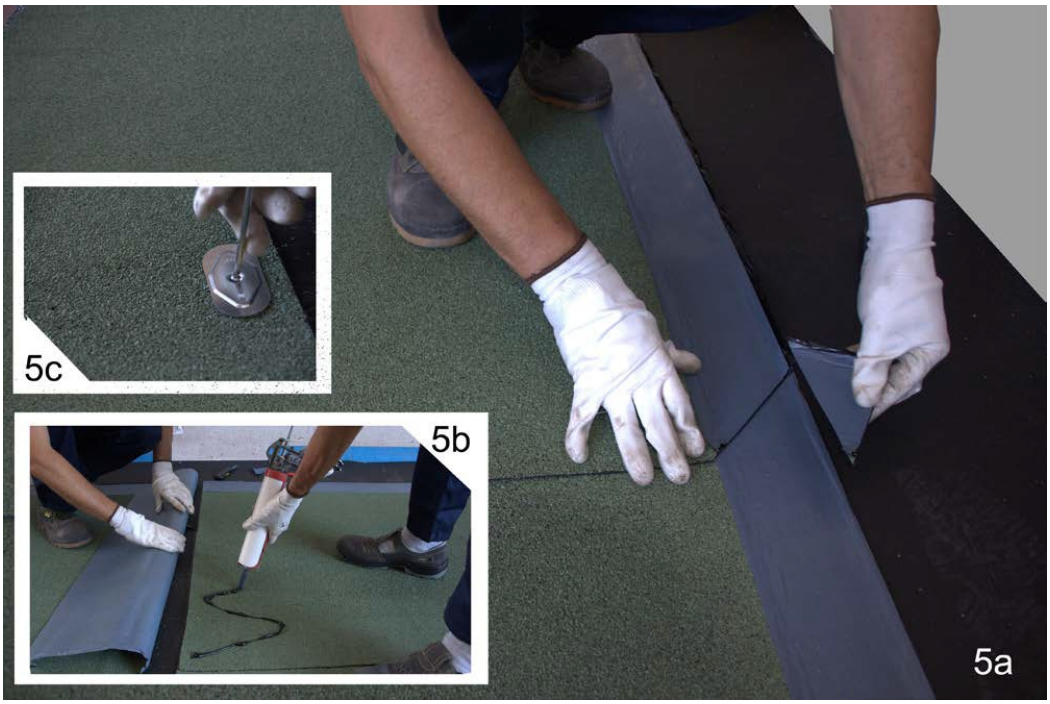
3. **a/b** Folding of half the surface of the roll and removal of the silicone film.
4. **2.c/d** Application of the membrane without the lower silicone film on a primed substrate.

Step 3.a/b: Lifting the lower flap and removing the silicone and the selvedge film from the aligning roll

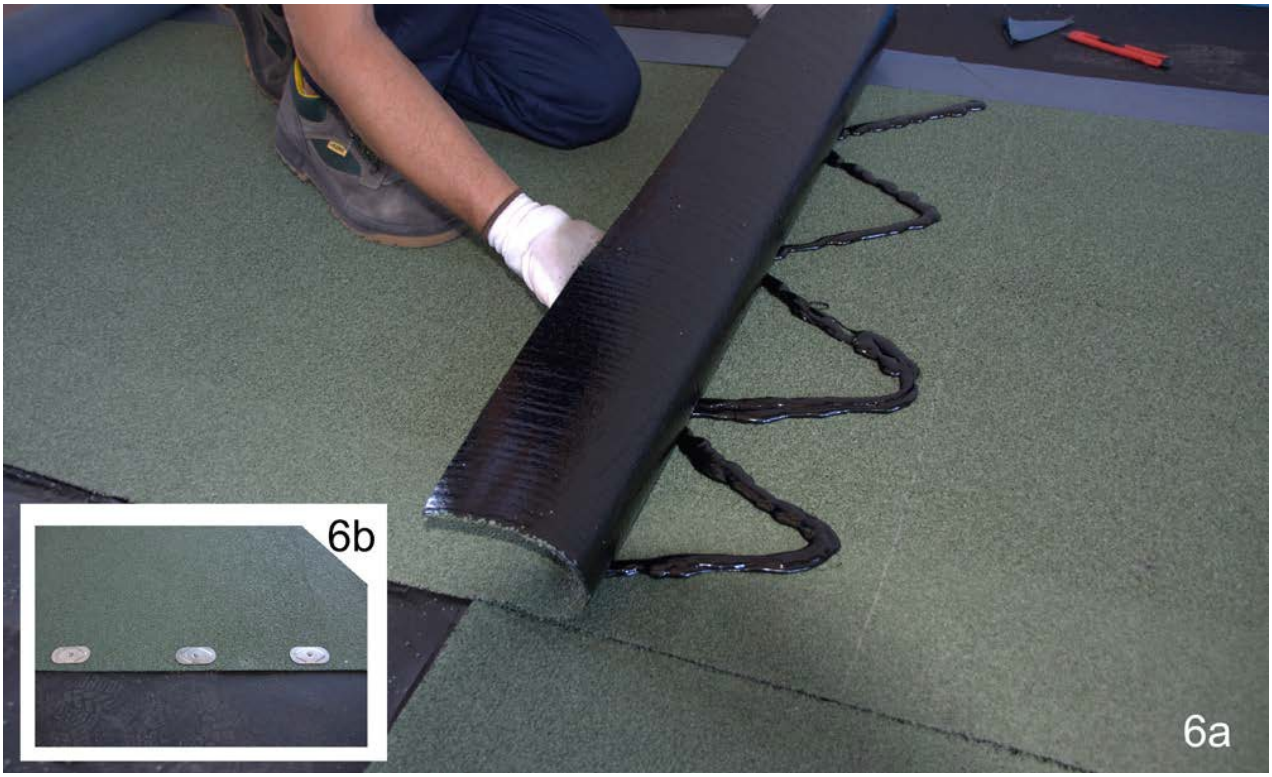
Step 4.a/b Rolling of the overlap area and the selvedge



Step 5
5.a 45° cut of the roll's edge at the head overlap
5.b/c Preparation of the overlapping surface with bituminous mastic or mechanical fixing with screws and metal washers



Step 6.a/b: Head overlap



Step 7.a Rolling of the head overlap zone

ADERIX - Range of products

ADERIX	STANDARD	U.M.	ADERIX Polyester		ADERIX Polyester AS						ADERIX Polyester SS		
			1,5 mm	2 AL	2 mm	2,5 mm	3 mm	3 mm TEX	3,5 Mineral	4 Mineral	2 mm	2,5 mm	3 mm
Finishing	-	-	PE/PES	PE/PES	PE/PES	PE/PES	PE/PES	TEX/PES	MIN/PES	MIN/PES	PE/PES	PE/PES	PE/PES
Reinforcement type	-	-	SP POL	AL+POL	POL	POL	POL	POL	POL	POL	POL	POL	POL
Thickness	EN 1849 - 1	mm	1,5	-	2	2,5	3	3	-	-	2	2,5	3
Weight	EN 1849 - 1	kg	-	2	-	-	-	-	3,5	4	-	-	-
Maximum Tensile Force LONGITUDINAL / TRASVERSAL	EN 12311-1	N/5cm	700 / 500	450 / 200	400 / 300	400 / 300	400 / 300	400 / 300	400 / 300	400 / 300	400 / 300	400 / 300	400 / 300
Elongation at break LONGITUDINAL / TRASVERSAL	EN 12311-1	%	40 /40	15 / 15	35 / 35	35 / 35	35 / 35	35 / 35	35 / 35	35 / 35	35 / 35	35 / 35	35 / 35
Tearing resistance LONGITUDINAL / TRASVERSAL	EN 12310 -1	N	150 / 150	120 / 120	130 / 130	130 / 130	130 / 130	130 / 130	130 / 130	130 / 130	130 / 130	130 / 130	130 / 130
Flow resistance at elevated temperature	EN 1110	°C	90	90	100	100	100	100	100	100	100	100	100
Flexibility at low temperatures	EN 1109	°C	-20	-20	-20*	-20*	-20*	-20*	-20*	-20*	-20	-20	-20

Aderix AS 2 mm – 2,5 mm – 3* mm dual compound APP/self adhesive for protective underlayer in combination with exposed bituminous membranes or ballasted systems / Protection layer for rising damp.

Aderix SS 2 mm – 2,5 mm – 3 mm dual compound SBS/self adhesive for underlayer for full double layers self-adhesive systems under heavy protection or exposed in combination with ADERIX MINERAL or ADERIX AS 4 MM with polypropylene fabric finish / Protection layer for rising damp.

Aderix AL 2 mm full SA compound for vapour barrier.

Aderix AS 4* mm dual compound APP/self adhesive for finishing layer under permanent protection in full self-adhesive systems (e.i. Aderix SS sub-layer) / for details application in single-layer systems of Dermabit FF Single PLY.

Aderix Mineral 3.5 kg – 4 kg dual compound APP/ self adhesive for finishing layer in full self-adhesive systems/Undertile on wooden substates

Aderix 1.5 mm full SA compound for application of insulation board.

No flame ADERIX adheres perfectly to the laying surface without torching on and is the right choice when waterproofing flat or sloping roofs with wooden decks or thermal insulation materials sensitive to flame heat.

versatile Thanks to the fact that ADERIX is self-adhesive it is indispensable on worksites where it is inadvisable to use an open flame.

Enviromental friendly ADERIX is simple and clean to lay with none of the risks typical of torching on techniques; ADERIX produces no fumes or odours making it perfectly eco-compatible.

High performance ADERIX is a self-adhesive compound which has been optimized to meet the requirements of professional installers.

wide range The ADERIX range includes mono and bicompound membranes with appropriate combinations of mixtures and finishes depending on use. ADERIX membranes contain seamless strand polyester non-woven fabric reinforcement stabilised with fibreglass threads. This reinforcement ensures excellent mechanical properties and outstanding dimensional stability.

BITUMINOUS-POLYMER MEMBRANES
MANTOLAMINA
THERMO INSULATION
MEMBRANES FOR SPECIAL APPLICATION
ACOUSTIC INSULATION
SYNTHETICS GEOMEMBRANES

CASALI
MEMBRANE DIVISION

ISO 9001
QUALITY SYSTEM

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