

Renoplast EPDM membrane installation on terraces, patios and balconies



IMPORTANT !

These installation instructions apply to terraces, patios and balconies surfaced with pedestal paving systems.

On flat roofs EPDM membranes should be fully adhered, and additionally secured with mechanical fasteners if required.

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1. Preparation for intallation

1.1 Precautions

Adhesives and sealants must be stored in a dry, cold and well ventilated place. Smoking and use of open flame must be prohibited in the storage area. Storage containers must be tightly sealed. Rolls should be stored horizontally on pallets.

1.2 Tools

Folding ruler, scissors, valour roller for glue application, wide rubber seam roller, narrow brass detailing roller, hammer drill/ driver, handheld cement mixer.

1.3 Substrate

The substrate should be even, smooth, without sharp edges, cracks, fissures or chipping. In order to ensure good adhesion the surface must be dry and free from adhesion-reducing substances, such as oil, grease, bitumens, etc. EPS and XPS are not suitable substrates due to the presence of volatile organic solvents in **RENOSTICK RS10**. Just before installation remove any dust, sand or other foreign matter from the surface on which **EPDM membrane** will be laid. Wall surfaces must be smooth and free of any cracks, fissures or chipping. Along the perimeter make a 80 mm wide by 3 mm deep recess in the base to allow drip edge installation flush with the screed top surface.



Perimeter recess formed in the screed

2. Materials

- EPDM membrane
- Preformed EPDM corners, internal and external
- EASY STICK EPDM self-adhesive tape
- EPDM sealant in 290 ml cartridges or 600 mm sausages
- RENOSTICK RS10 glue

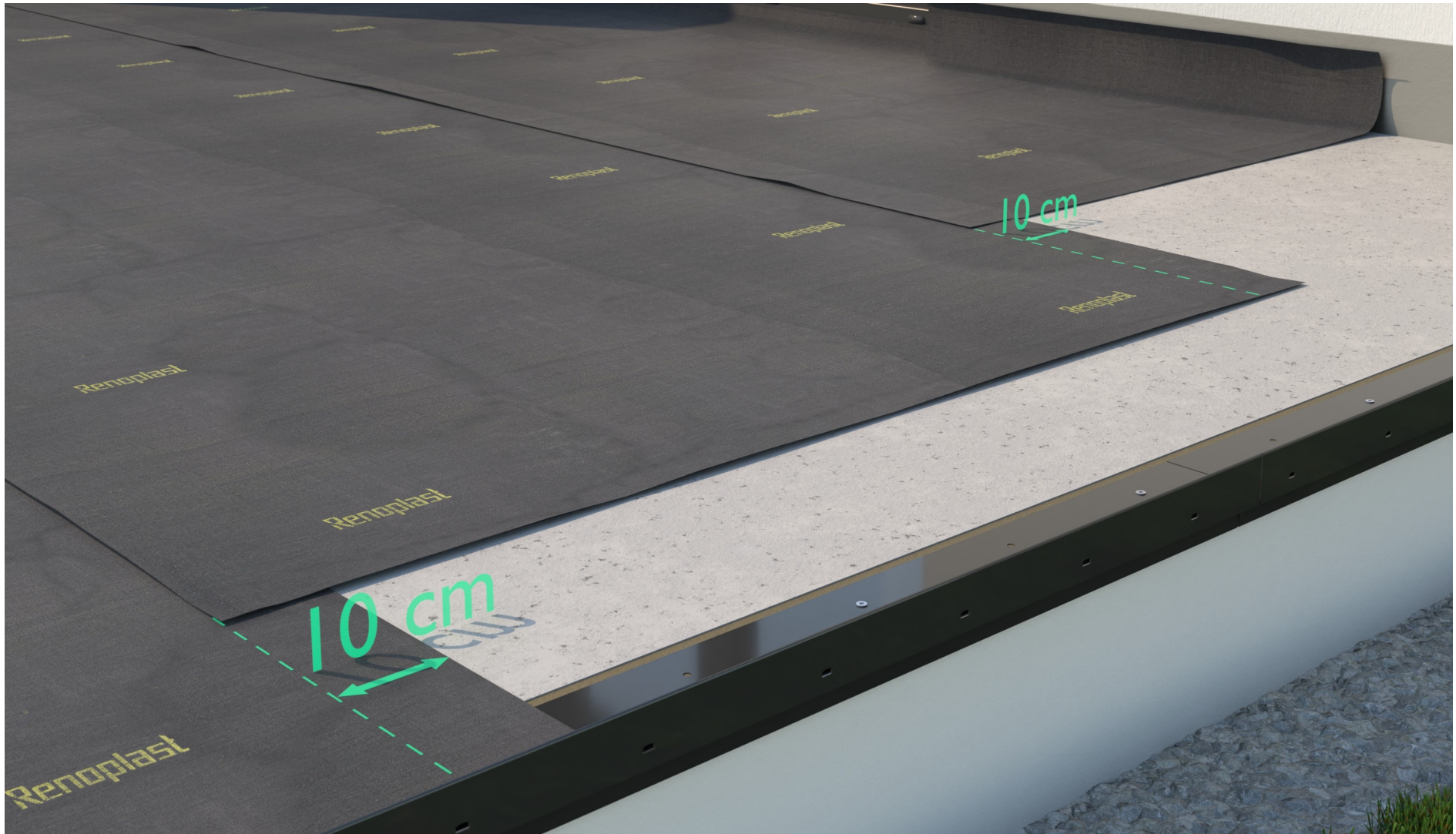
3. Installation

3.1 EPDM membrane preparation

The membrane should be unrolled and laid out on the base without stretching and left to relax for ca. 15-60 minutes to relieve stresses induced by rolling or storage. Longer relaxation time may be needed at lower temperatures. Do not make any adjustment or cut the membrane during this time. Before fixing clean the membrane surface with a cloth lightly saturated with isopropyl alcohol, paying particular attention to areas to receive adhesive. Check for any damage from abrasion, tears or punctures.

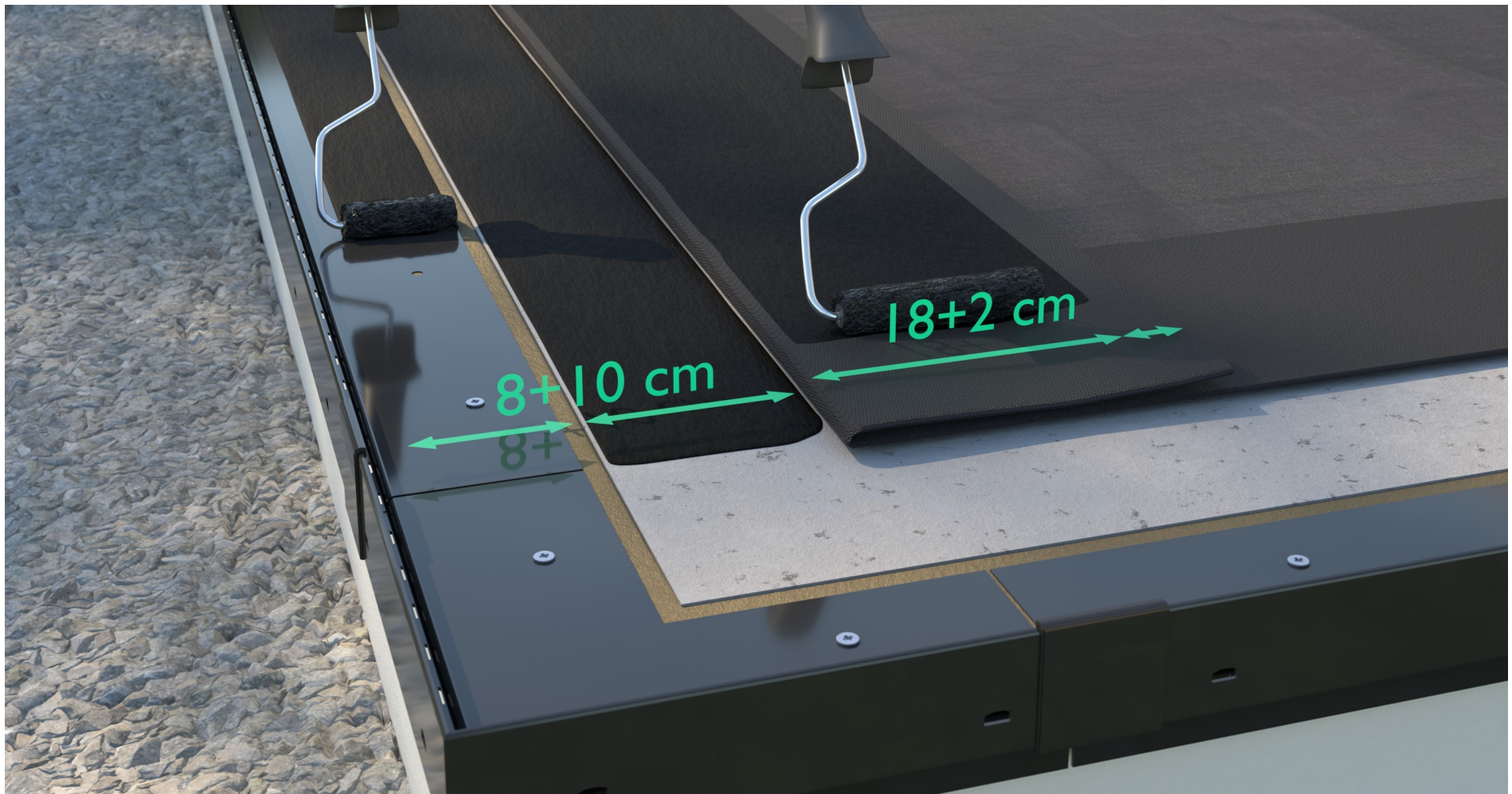
3.2 Measuring and cutting to size

EPDM membrane should be oriented in the moisture draining direction to avoid moisture accumulation at laps. Start laying the membrane from the building wall. The first sheet should extend at least 15 cm up the adjacent wall. The subsequent sheets should be lapped min. 10 cm wide at seams.



3.3 Bonding to base

On terraces, patios or balconies **EPDM membranes** are bonded to base with **RENOSTICK RS10** applied over 18-20 cm wide strips around the perimeter and sealed with **EPDM sealant** applied over a 2 cm wide strip. Perimeter bonding is allowed on ballasted surfaces only. Before application **RENOSTICK RS10** must be thoroughly mixed in the container to obtain uniform consistency. After mixing, **RENOSTICK RS10** should be applied in a thin and even layer on the substrate and membrane mating surfaces, using a velour roller.



Glue should form a uniform layer without blisters, globs or puddles or foaming. Wait 5-15 minutes to allow the glue to flash off. Glue should be dry to touch, i.e. it should not string to a dry finger. Evenly press the membrane into place, using a wide hand roller.



Remove any wrinkles or blisters. At all seams leave a ca. 2 cm wide strip free of adhesive, to be subsequently sealed with **EPDM sealant**. Now apply the sealant and press down the membrane with hand roller, until a continuous bead of sealant has been squeezed out from under the membrane.



Remove the squeezed out amount of sealant from the membrane surface. Proceed in the same way when bonding the membrane to drip edges. Before application, thoroughly clean and degrease the drip edge surface.

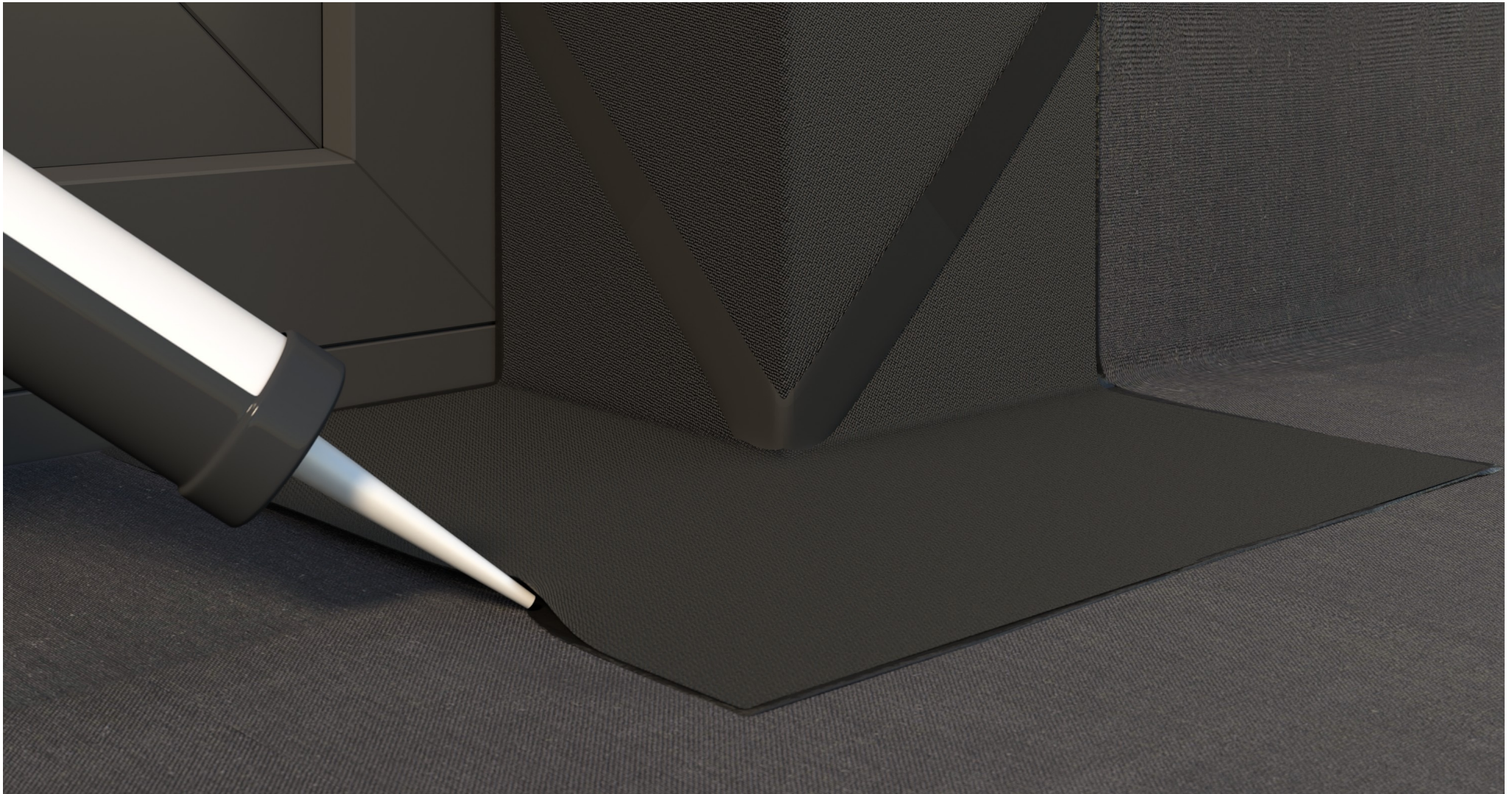
3.4 Bonding the membrane to wall surface

Apply **RENOSTICK RS10** on the membrane, all over the mating surface, except from a 2 cm wide strip from the edge, where **EPDM sealant** will be subsequently applied. Proceed the same as for adhering field sheets.



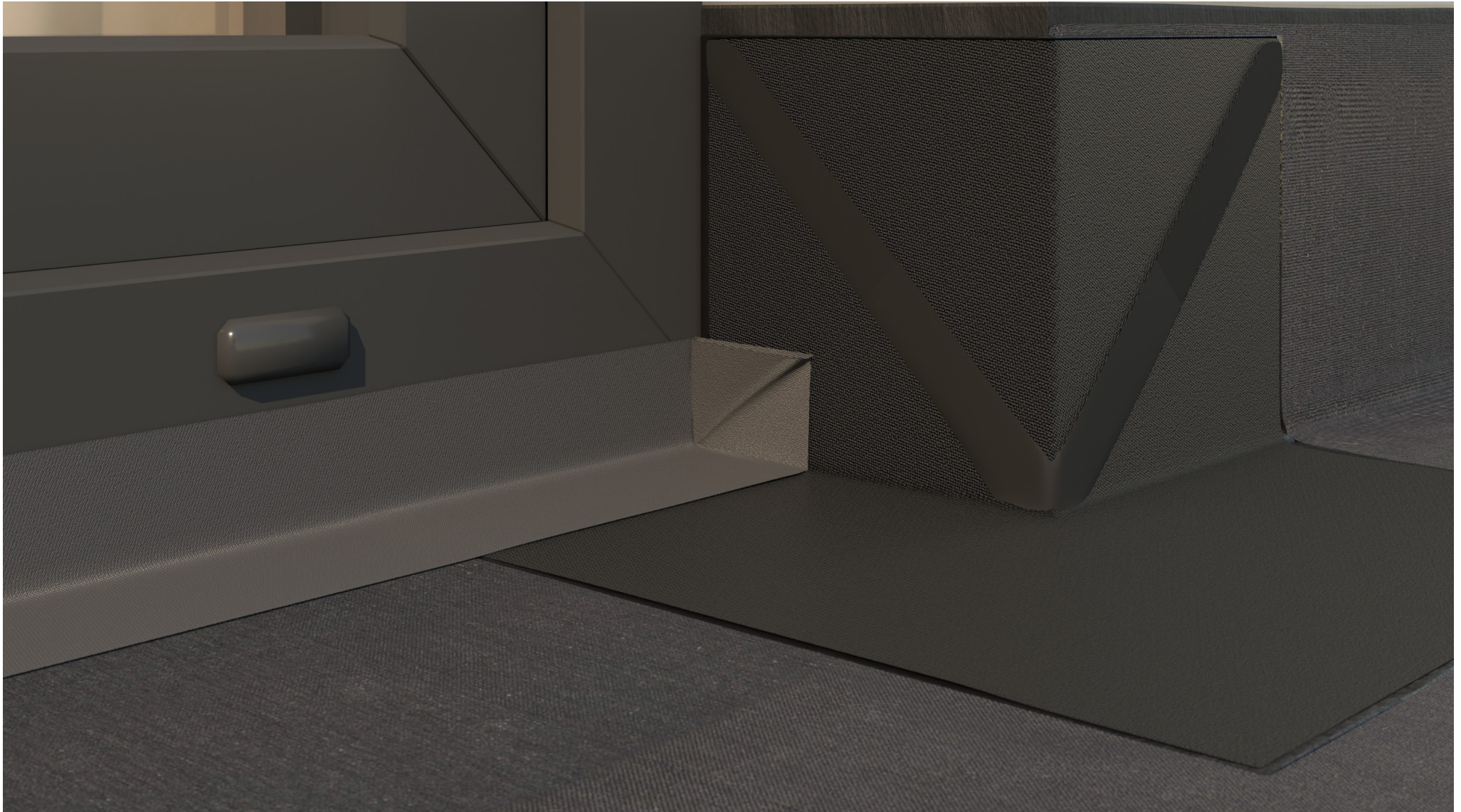
3.5 Bonding preformed internal and external corners

Preformed **EPDM corners** are used to reinforce **EPDM membrane** layer at wall corners. Renoplast corners are supplied ready to use. They are fully adhered with **RENOSTICK RS10**. Proceed the same as for adhering field sheets.



3.6 Joining EPDM membrane to balcony door threshold

For joining **EPDM membrane** to balcony door threshold use 10 cm wide **EASY STICK EPDM self-adhesive tape**. The tape is adhered to cleaned and degreased threshold and to **EPDM membrane**.

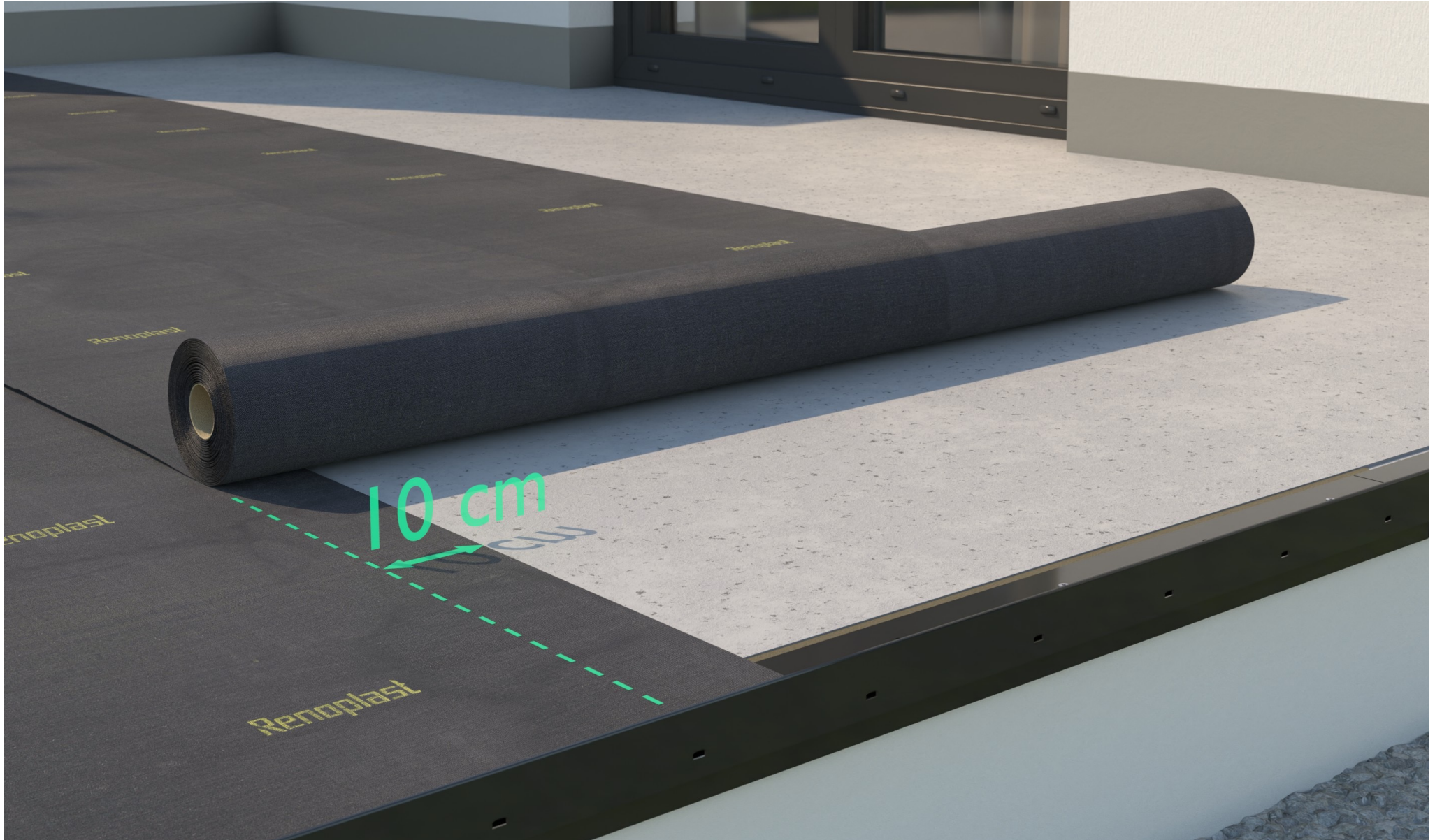


3.7 Mechanical fixing of EPDM membrane building walls

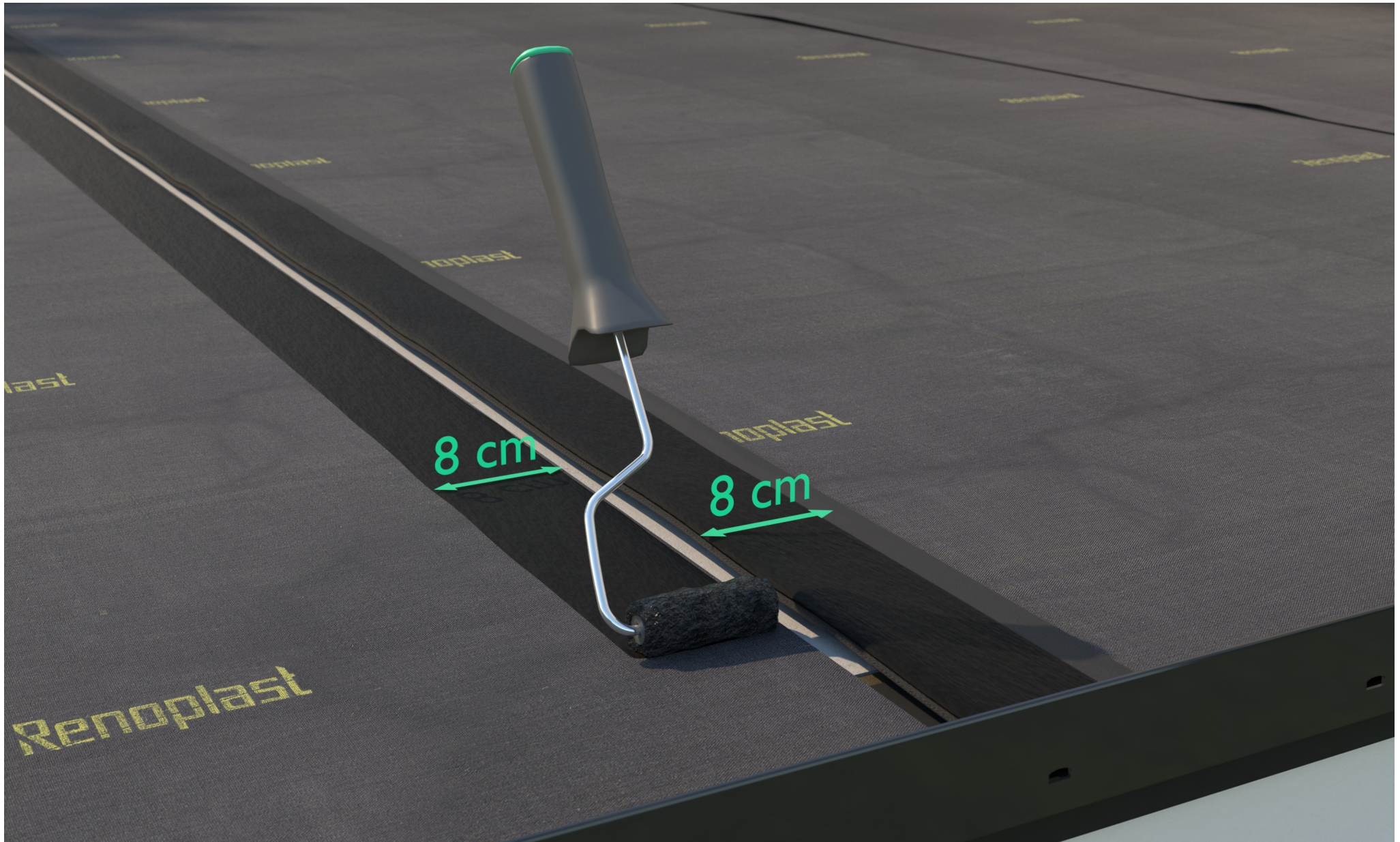
The **EPDM membrane** upstands are secured to building walls with **C1 plinth trim base rail**. Mechanical fixing prevents detaching the membrane from the wall surface. **C1 plinth trim base rail** is placed on the wall along the top edge of **EPDM membrane** upstand and then fixed mechanically with wall plugs. Along **C1 plinth trim base rail** top edge apply **EPDM sealant** into the formed channel.

3.8 Joining membrane sheets

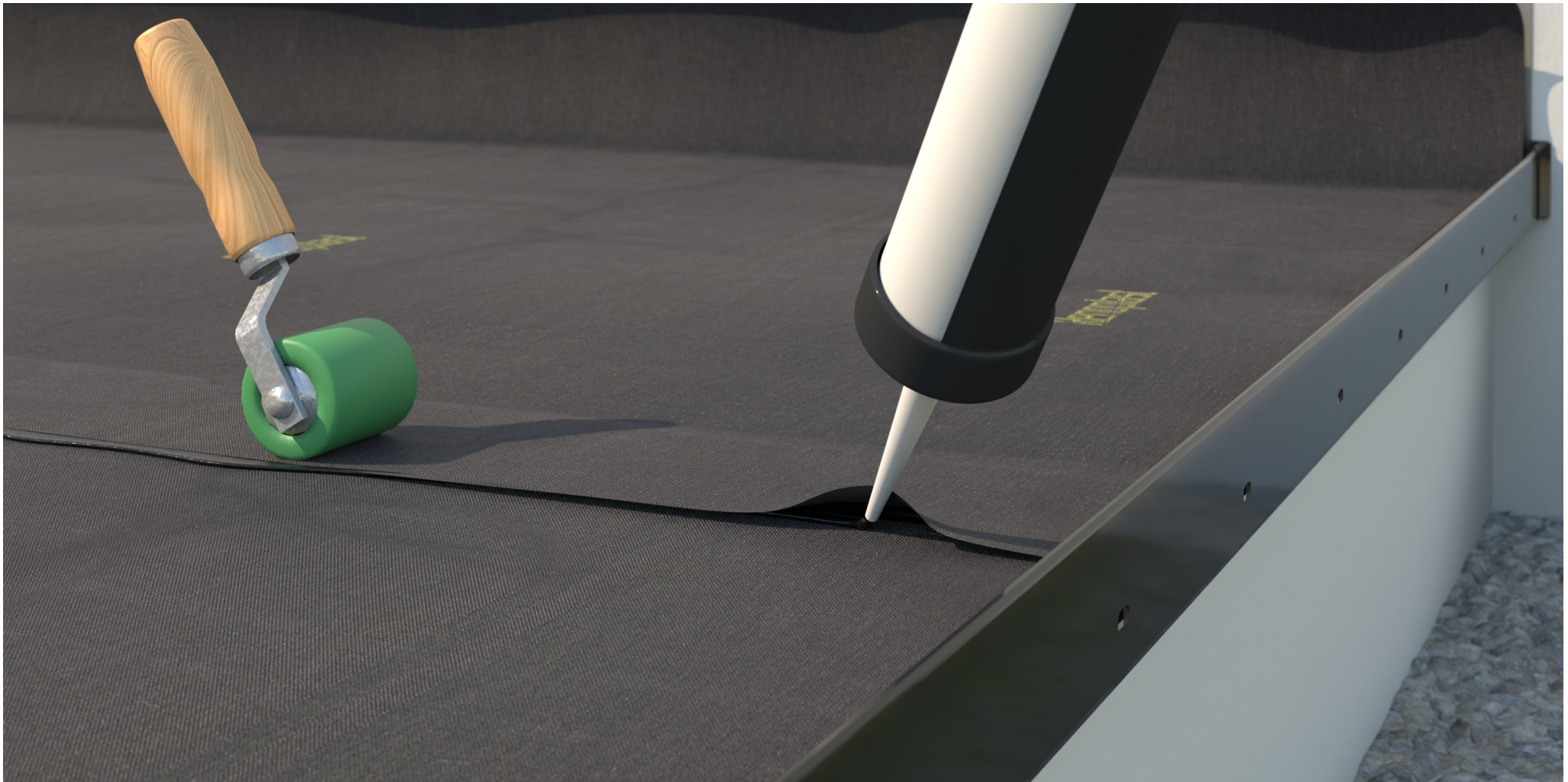
Membrane sheets should be laid with min. 10 cm laps.



Turn the top sheet inside out along the lap and apply **RENOSTICK RS10** on the mating surfaces using 8 cm wide velour hand roller to obtain a thin and layer of even thickness. Leave a ca. 2 cm wide strip without glue.

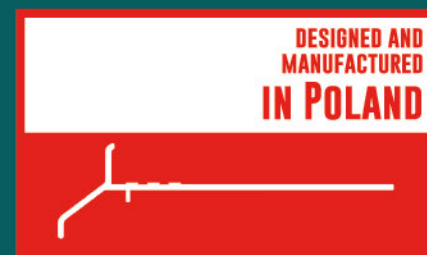


Wait 5-15 minutes to allow the glue to flash off. Before joining the sheets the glue should be dry to touch, i.e. it should not stick to a dry hand. Then joint the sheets by pressing them to base with a hand roller. Remove any wrinkles or blisters. At all seams turn the 2 cm wide strip free of adhesive inside out and apply **EPDM sealant** thereon. Roll the membranes along the seam to squeeze out the applied sealant. Remove the squeezed out amount of sealant from the membrane surface.





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