

# WATERPROOFING FOUNDATIONS BELOW-GRADE

## APPLICATION METHOD FOR THE BASIC WATERPROOFING MEMBRANE AND ICF FOUNDATION WATERPROOFING MEMBRANE

**APPLICATION CONDITIONS**  
The minimum application temperature for RESISTO membranes is 10°C (50°F). Surfaces must be clean and dry. It is important to bring products to ambient temperature before use.

- SUBSTRATE**
- Concrete
  - Concrete blocks
  - ICF blocks
  - PVF foundations

**PREPARATION**

- Use a chalk line to delimit the surface where the membrane is to be applied. Fig. 1
- Use a brush or roller to apply a coat of RESISTO PRIMER.

**NOTE**  
Even if adherence on ICF blocks is generally excellent without primer, certain situations may call for the use of a primer. In such cases, apply only water-based RESISTO H<sub>2</sub>O PRIMER.

**APPLYING RESISTO PRIMER**  
**NOTE**  
If a foundation sealant was recently applied to the wall of the foundation, please contact RESISTO because solvent-based RESISTO EXTERIOR PRIMER may dilute the sealant and reduce adherence to the substrate.



**Drying time**  
½ hour to 3 hours, depending on application conditions. The drying time can vary according to the ambient temperature and the thickness applied, but also according to the type of substrate.

**Coverage**  
**EXTERIOR PRIMER:**  
1 L covers 32 to 55 ft<sup>2</sup> (3 to 5 m<sup>2</sup>)  
**H<sub>2</sub>O PRIMER:**  
1 L covers 32 to 96 ft<sup>2</sup> (3 to 9 m<sup>2</sup>)  
Coverage may vary depending on the permeability of the substrate.

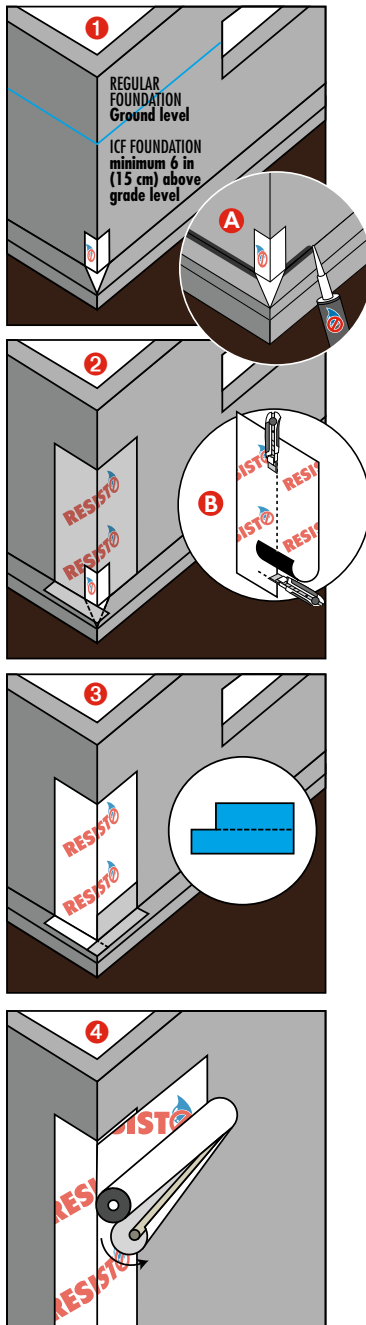
If fresh concrete is to be waterproofed, make sure the concrete has had sufficient time to set before applying the membrane.

## INSTALLING THE RESISTO BASIC WATERPROOFING MEMBRANE OR ICF FOUNDATION WATERPROOFING MEMBRANE

**First step:**

- Treat the foundation corners. Install a gusset (a small piece of membrane) each time a corner is to be covered with RESISTO BASIC WATERPROOFING MEMBRANE. Fig. 1 5
- On concrete or PVF foundations only: apply a bead of RESISTO ELASTOMERIC SEALER (max ½ in [1.2 cm]) at the junction between the footing and the foundation-wall; this will procure an additional protection when the transition membrane is applied. Fig. 4

### OUTSIDE CORNERS



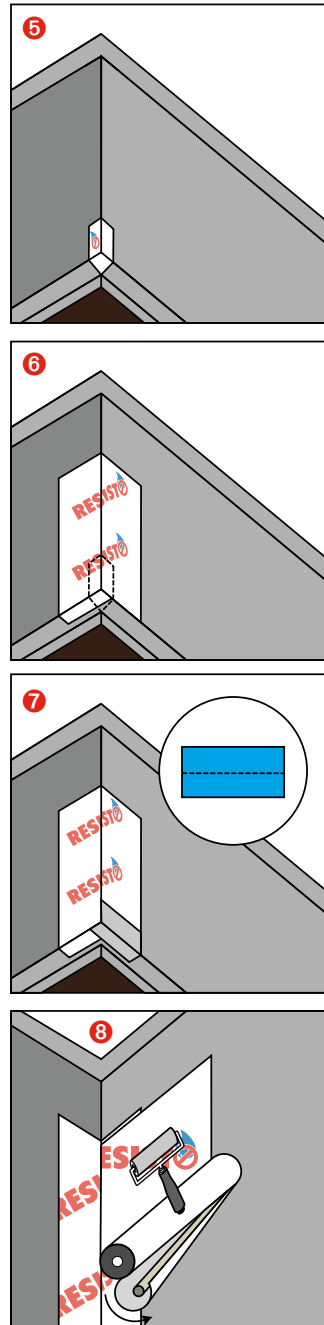
**Second step:**

- Cut the membrane in two to obtain two strips the same height as the foundation surface to be covered. Fig. 5
- Cover the inside and outside corners of the foundation with the strips to reinforce them. It is important to carefully position the strips by affixing one side at a time. Fig. 2 3 6 7

**Third step:**

- Install the membrane from top to bottom starting at one corner of the foundation.
- Peel back the release sheet on the bottom surface by 4 in (10 cm) to adhere the top edge of the membrane to the foundation. This will hold the membrane against the foundation for easier installation. Fig. 4

### INSIDE CORNERS

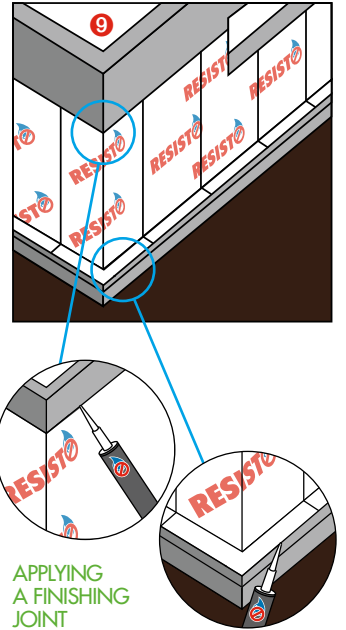


- Use a small rubber roller to press down on the membrane to increase adherence while gradually peeling back the release sheet. Fig. 8
- Overlap each membrane strip by 4 in (10 cm) (the dotted line on the membrane indicates where they should be overlapped).
- The membrane must cover 2/3 of the footing at the bottom of the wall.

To make installation easier, pre-cut membrane strips to the height of the foundation to be protected (grade level – drain).

When adhering to ICF foundations, the membrane should extend beyond the grade level by approximately 6 in (15 cm) to ensure that rainwater does not come into contact with the insulation. The aboveground portion of the covering (e.g., parging\*, fibrocement panels) should overlap the top edge of the membrane.

\* A reinforcement wire mesh must be mechanically fastened to the foundation to apply the parging onto the membrane.



**CONCRETE FOUNDATIONS**  
To ensure a perfect seal, apply RESISTO ELASTOMERIC SEALER along the top edge of the membrane and at the bottom along the footing around the entire foundation to avoid seepage. Fig. 9

**ICF FOUNDATIONS**  
Apply RESISTO ELASTOMERIC SEALER around the entire foundation, but only at the bottom along the footing.

**RECOMMENDATIONS**  
If the soil is rocky, use sand or install a protective panel (e.g., fibreboard, insulation, or asphaltic panel such as RESISTOBOARD) around the entire foundation to avoid perforating the membrane while backfilling.

However, when the backfill soil is clayey, a protective panel must be installed to ensure the integrity of the waterproofing system.