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**Preprufe®.**

**Installation Instructions**

**GRACE**

## **General Notes:**

**Preprufe® 300R & 160R are supplied in rolls 1.2 m wide with a selvedge on one side to provide self adhered laps for continuity between rolls.**

**The rolls of Preprufe R and Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcing and concrete.**

## **Substrate Preparation**

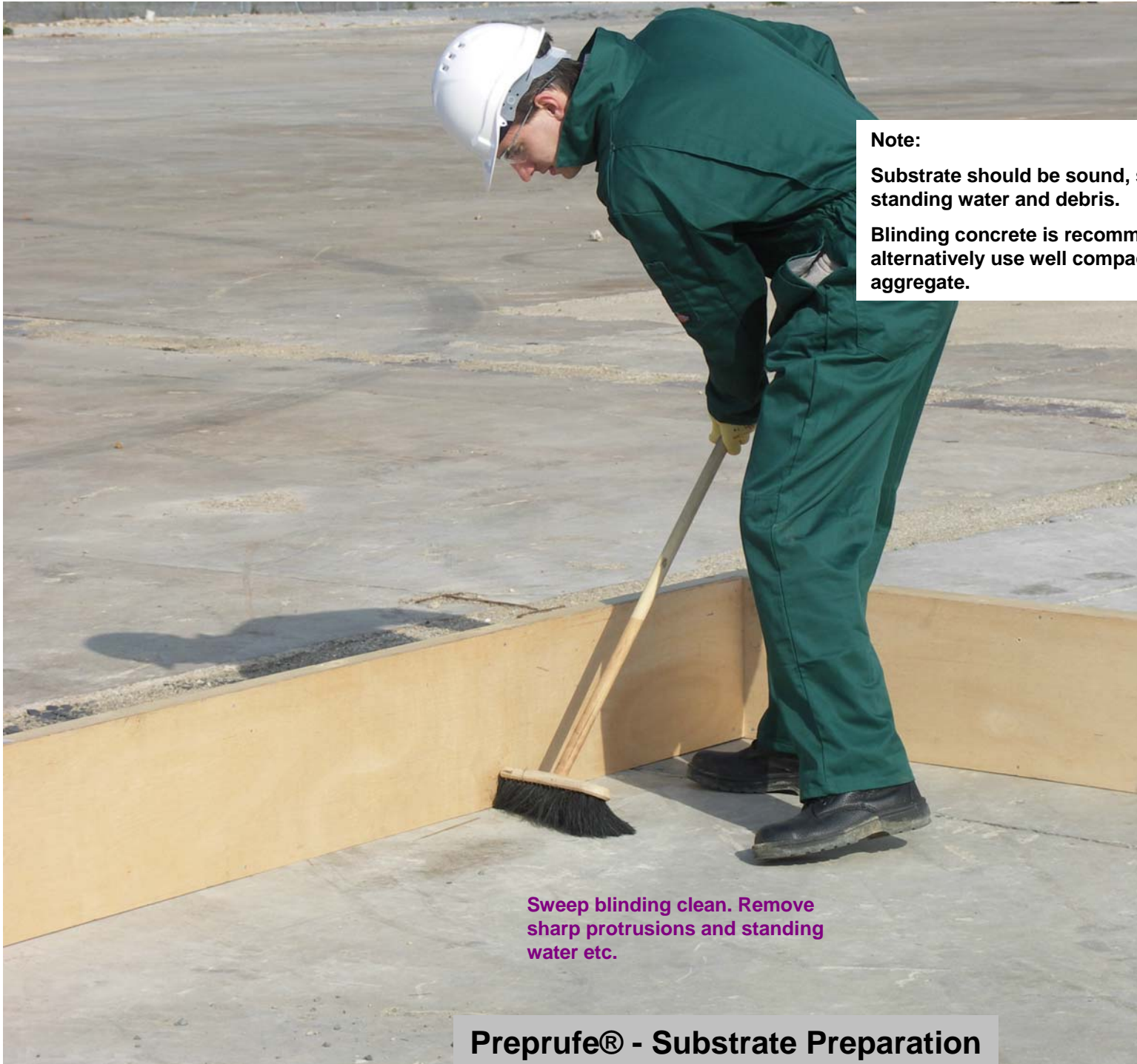
**All Surfaces – It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than 12mm.**

**Horizontal Blinding – monolithic concrete blinding is preferred. The blinding must be free of loose aggregate and sharp protrusions. An angular profiled blinding is recommended rather than a sloping or rounded substrate.**

**The surface does not need to be dry but standing water must be removed.**

# Application Temperatures

**When installing Preprufe® R in cold or marginal weather conditions (<13°C) the use of Preprufe® Tape LT is recommended at all laps and detailing. Preprufe® Tape LT should be applied to clean dry surfaces and the release liner must be removed immediately after application.**



**Note:**

**Substrate should be sound, smooth and free from standing water and debris.**

**Blinding concrete is recommended below slabs, alternatively use well compacted sand on rolled aggregate.**

**Sweep blinding clean. Remove sharp protrusions and standing water etc.**

**Preprufe® - Substrate Preparation**

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The weights of rolls of Preprufe® 160R and Preprufe® 300R are 42kg and 50kg respectively and therefore two persons should be used to lift and carry each roll.

**Preprufe® - Lifting and Carrying**



Preprufe® - Removing from Box



**Preprufe® - Removing from Box**





Preprufe® - Removing from Box

GRACE



# Preprufe® 300R

**APPLICATION HIGHLIGHTS**  
Important: Refer to Preprufe literature for complete application information and details.

**CARACTÉRISTIQUES D'APPLICATION**  
Important: Veuillez vous référer à la documentation de Preprufe pour obtenir une information et des détails complets ayant trait à l'application.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.



**Preprufe® - Installation Instructions**

### Note:

The Preprufe® Application Method Statement is available as a printed sheet direct from Grace, or from the Grace website or application instructions are printed on the back of the packing carton.



# Preprufe® 300R

Waterproofing Membrane

CONTENTS: 1 Roll — 38 m<sup>2</sup> (1.2 m x 30 m) 382 ft<sup>2</sup> (14 ft x 98 ft) Membrane  
— 49 lbs (18 kg)

## Preprufe®300R SAFETY INSTRUCTIONS

Read Before Use. Refer to MSDS for additional information.

**CAUTION!** Contact with residue from adhesive can cause skin and eye irritation.

- Contents: Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene CAS # 025038-32-8, Diethylates, petroleum, hydrotreated heavy naphthenic CAS # 064742-52-5, Naphtha, petroleum, light steam-cracked arom., piperylene co CAS # 068478-07-0, Polyethylene sheet CAS# N/A, Polyester Film CAS# N/A
- Release liners are slippery. Remove from work area immediately after membrane application.

### PRECAUTIONARY MEASURES

- Avoid contact with eyes, skin and clothing.
- Wash clothing before reuse.
- To avoid skin contact, use gloves or barrier creams.
- Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling.

### FIRST AID

**Skin Contact:** Clean skin as directed above. If residue remains, clean with waterless handcream or abrasive soap. Never use solvents. If discomfort or irritation persists, consult a physician.  
**Eye Contact:** Flush eyes with water for at least 15 minutes while holding eyelids open.  
If discomfort or irritation persists, consult a physician.

### RELEASES AND DISPOSAL

Observe all precautions noted above. Remove material for disposal. Consult all regulations (federal, provincial, state, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

### LIMITATION OF LIABILITY

W. R. Grace & Co.-Conn. and its affiliated companies ("Grace") at its option will replace or refund the purchase price of the contents of this package, if found defective in material or workmanship. ALL OTHER REMEDIES AND LIABILITIES, INCLUDING WITHOUT LIMITATION, LIABILITY FOR CONSEQUENTIAL DAMAGES AND ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY ARE EXCLUDED. This product may be covered by one or more of the following patents and patents pending: U.S. Pat. 5,316,848; U.S. Pat. 5,496,615; Mexican Pat. 179151 as well as assorted European Patents.

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Preprufe is a registered trademark of W.R. Grace & Co.-Conn.  
Label Spec. 885-10-03

**FOR PROFESSIONAL USE ONLY.  
KEEP OUT OF CHILDREN'S REACH.**



WEAR GLOVES



WASH HANDS

**NORTH AMERICA**  
W. R. Grace & Co.-Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140  
(603) 333-3720

**CANADA**  
Grace Canada, Inc.  
294 Clements Rd. W.  
Ajax, Ontario L1s 3C8  
(905) 683-8561

**TECHNICAL ASSISTANCE** North America: (866) 333-3SEM (3726)  
Europe: + 44 (0) 1753 692929

**EUROPE**  
Grace Construction Products Ltd.  
Slough SL1 4BH United Kingdom  
Tel: + 44 (0) 1753 692929  
Fax: + 44 (0) 1753 691623

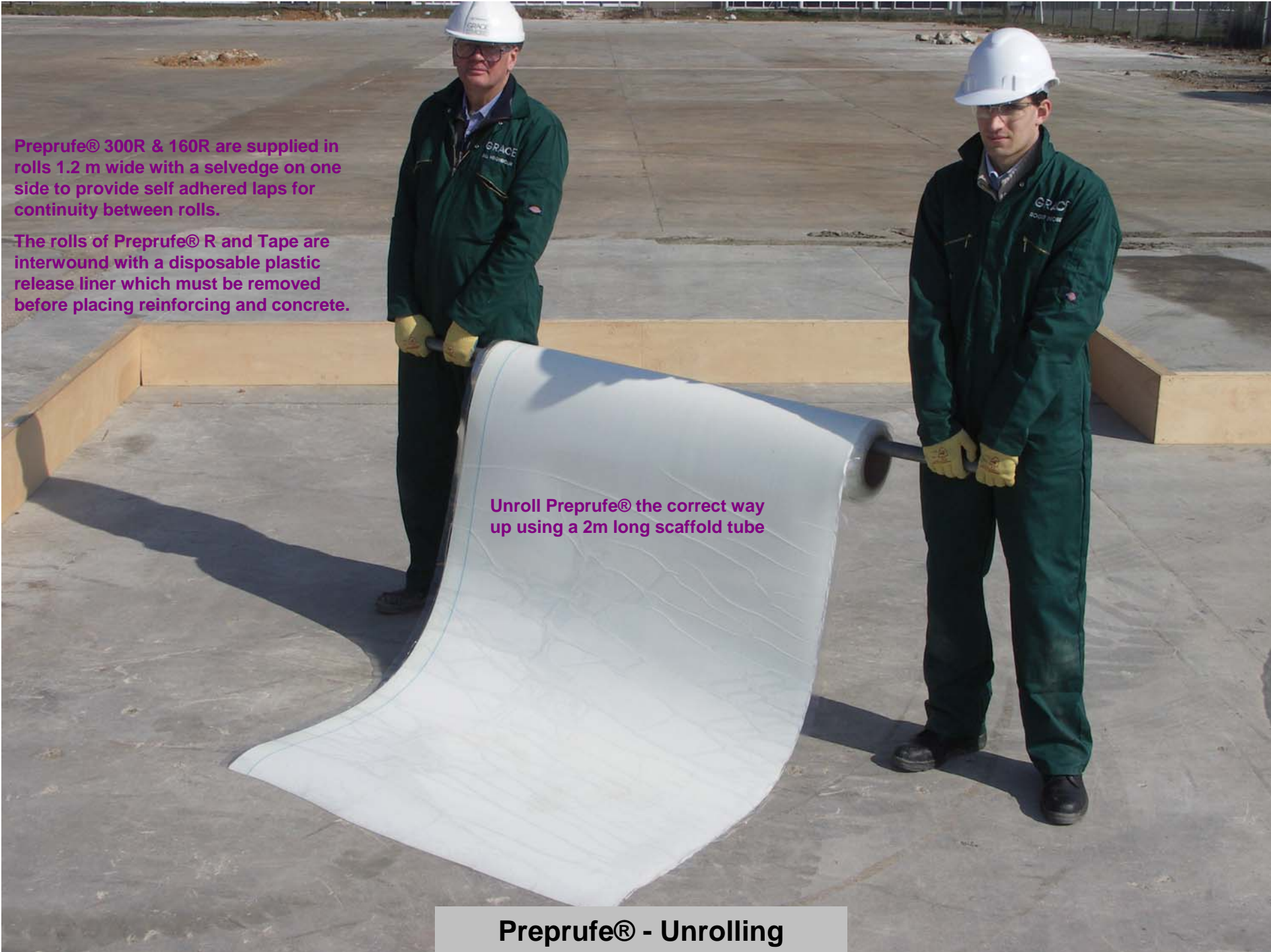
**ASIAPACIFIC**  
W. R. Grace (Singapore) Pte. Ltd.  
Singapore 609034  
Tel: (65) 6261-2225  
Fax: (65) 6265-3033

**web** Visit our web site at [www.graceconstruction.com](http://www.graceconstruction.com)



**GRACE**  
Construction Products

Preprufe® - Safety Instructions



Preprufe® 300R & 160R are supplied in rolls 1.2 m wide with a selvedge on one side to provide self adhered laps for continuity between rolls.

The rolls of Preprufe® R and Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcing and concrete.

Unroll Preprufe® the correct way up using a 2m long scaffold tube

**Preprufe® - Unrolling**



**RECOMMENDED**  
Safety gloves when  
cutting Preprufe and  
cutting knife with  
retractable blade

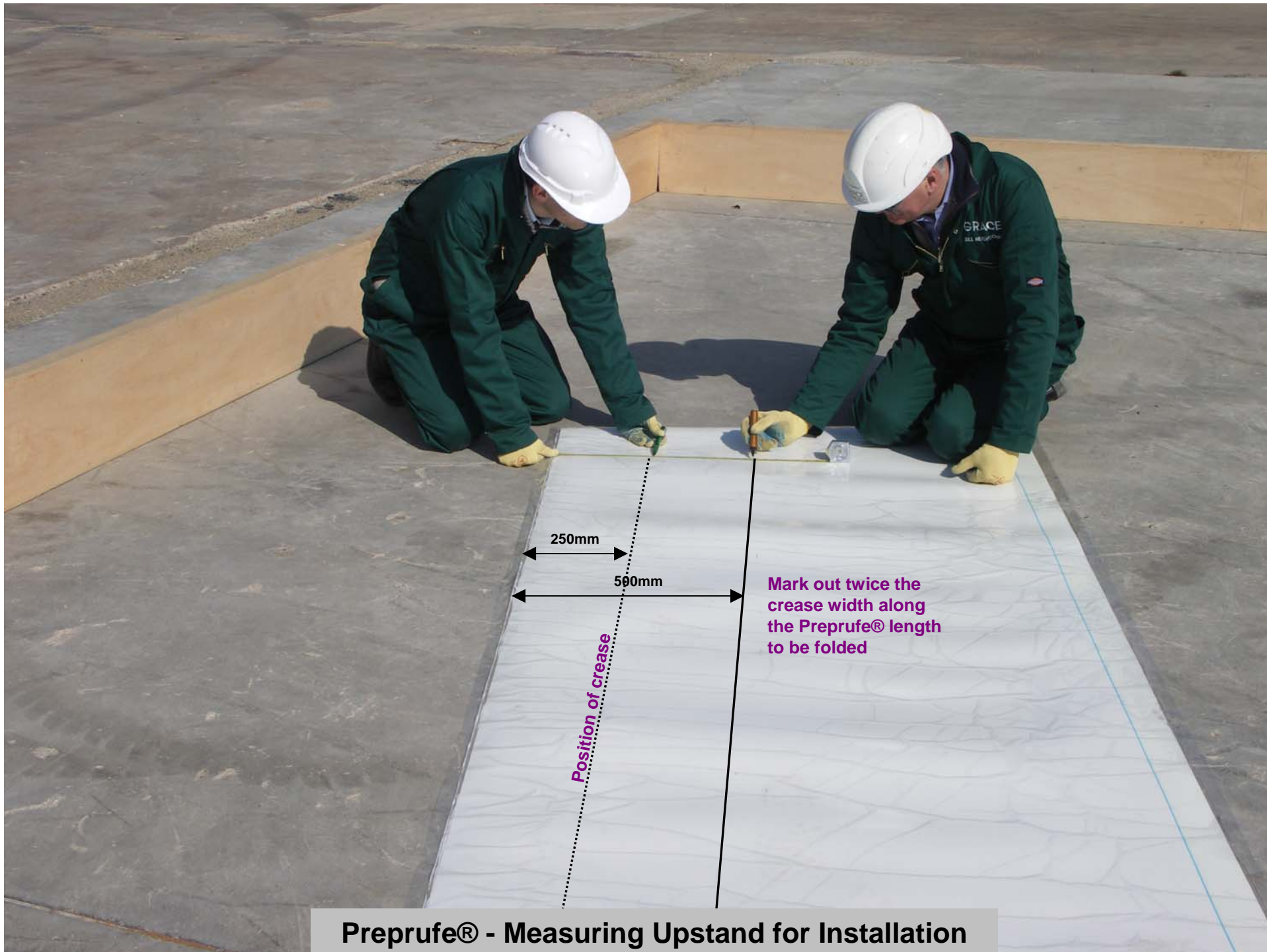
Disposable plastic  
release liner  
uppermost

**Preprufe® - Cutting to Length**



Note: Inside the perimeter formwork, Preprufe® should be taken to 50mm below top of slab edge

Preprufe® - Measuring Upstand for Installation



**Preprufe® - Measuring Upstand for Installation**



Fold the Preprufe® to the marked (500mm) position to ensure 250mm upstand return.

**Preprufe® - Folding for Upstand Installation**





Firmly crease with  
foot pressure,  
alternatively a roller  
can be used.

**Preprufe® - Creasing for Upstand installation**

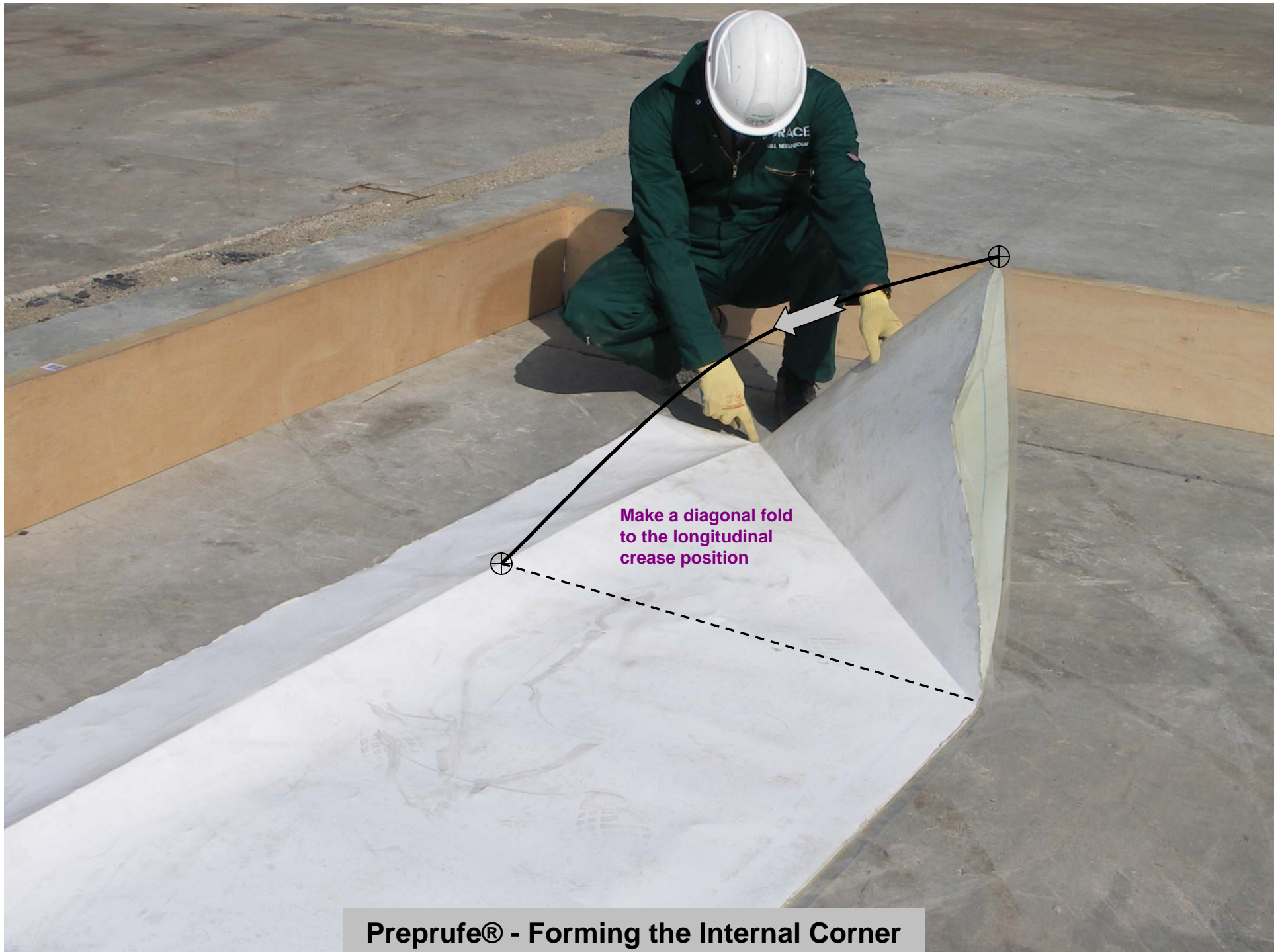
# Preprufe® - Installation Instructions

## The Internal Corner

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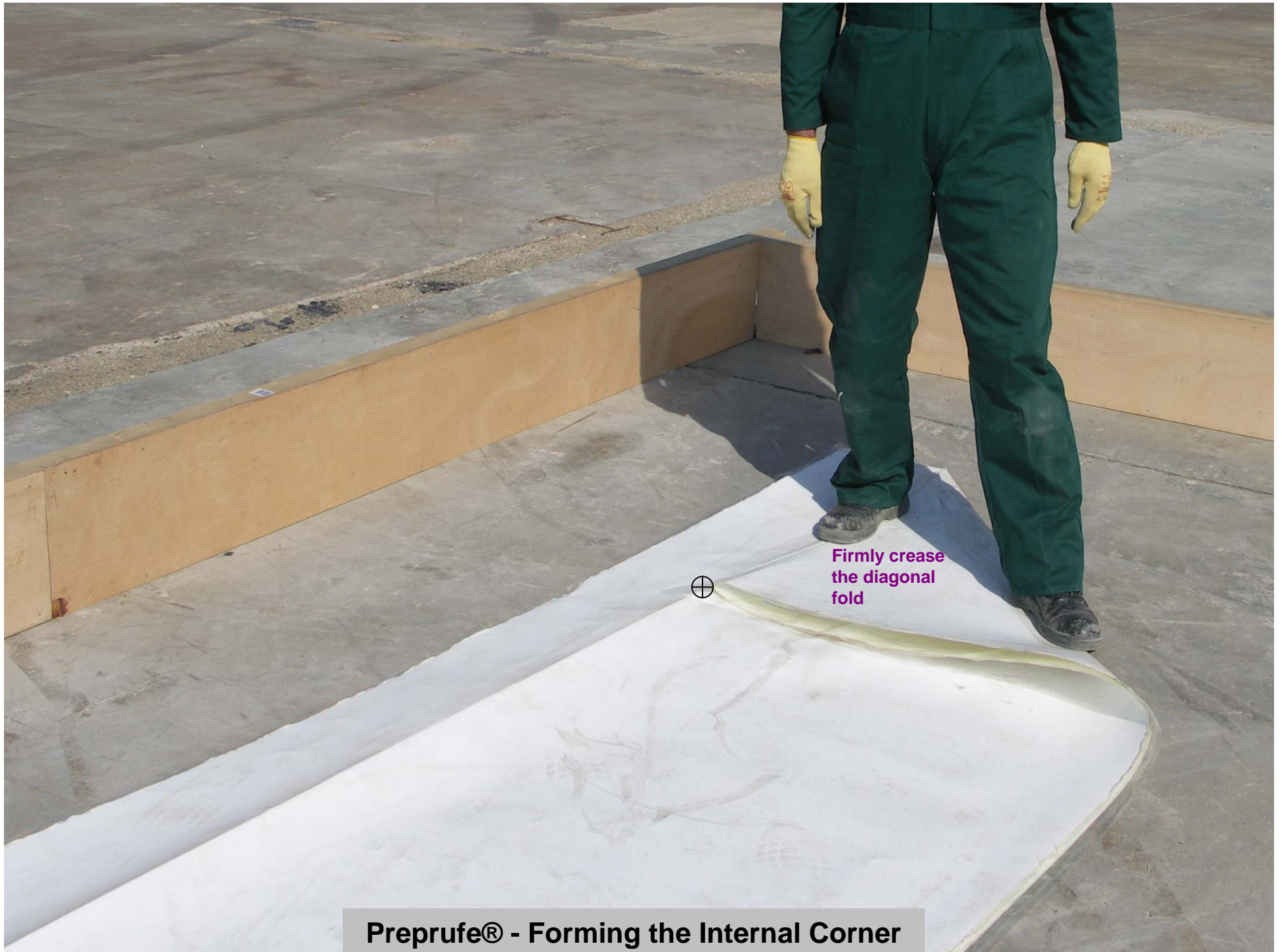


**Preprufe® - Forming the Internal Corner**



Make a diagonal fold to the longitudinal crease position

Preprufe® - Forming the Internal Corner



**Preprufe® - Forming the Internal Corner**



Open the Preprufe® out

**Preprufe® - Forming the Internal Corner**



Complete the folds

**Preprufe® - Forming the Internal Corner**




Place the Preprufe® internal corner to the shutter.

Note the triple layer of Preprufe®

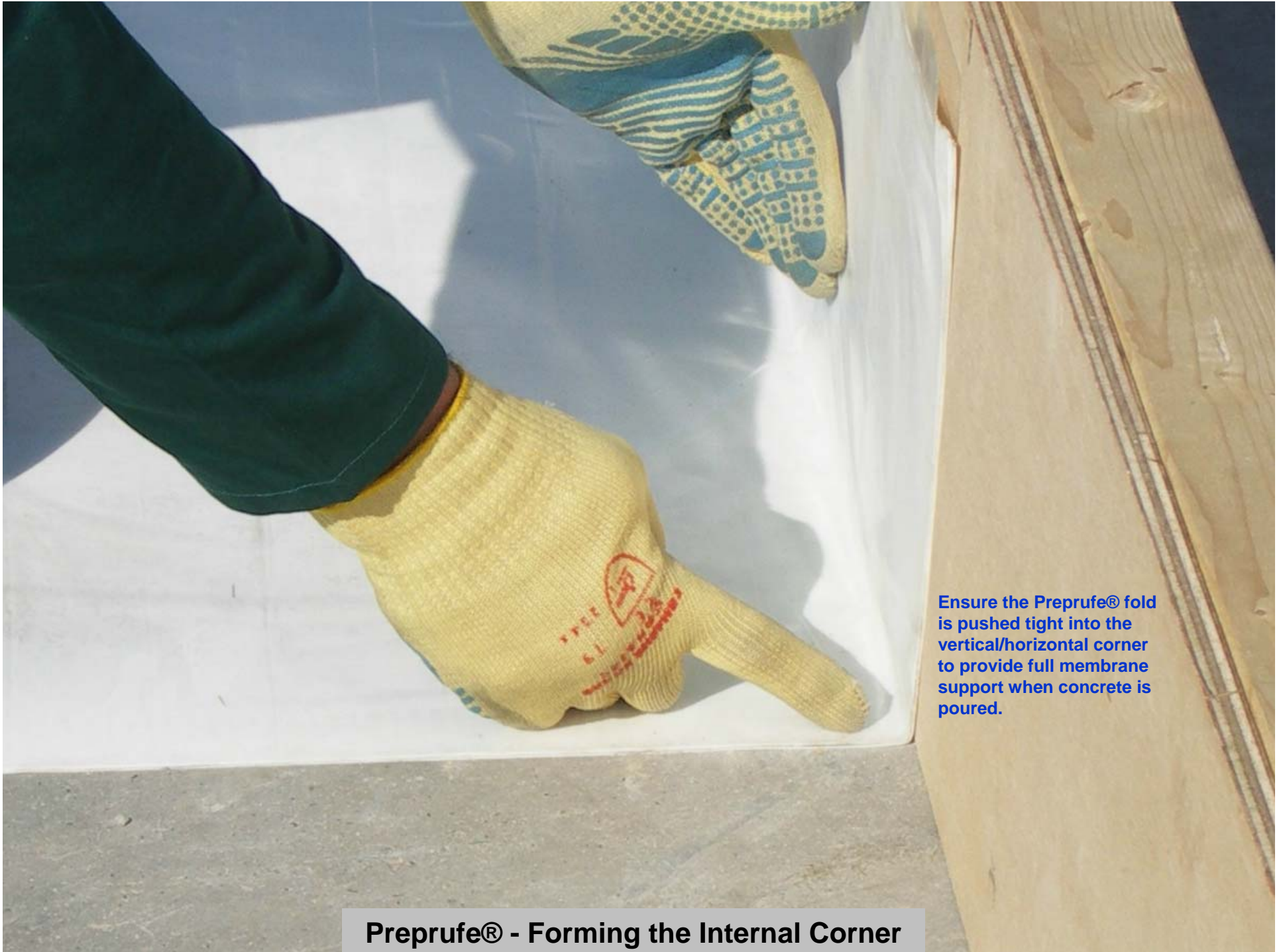
**Preprufe® - Forming the Internal Corner**





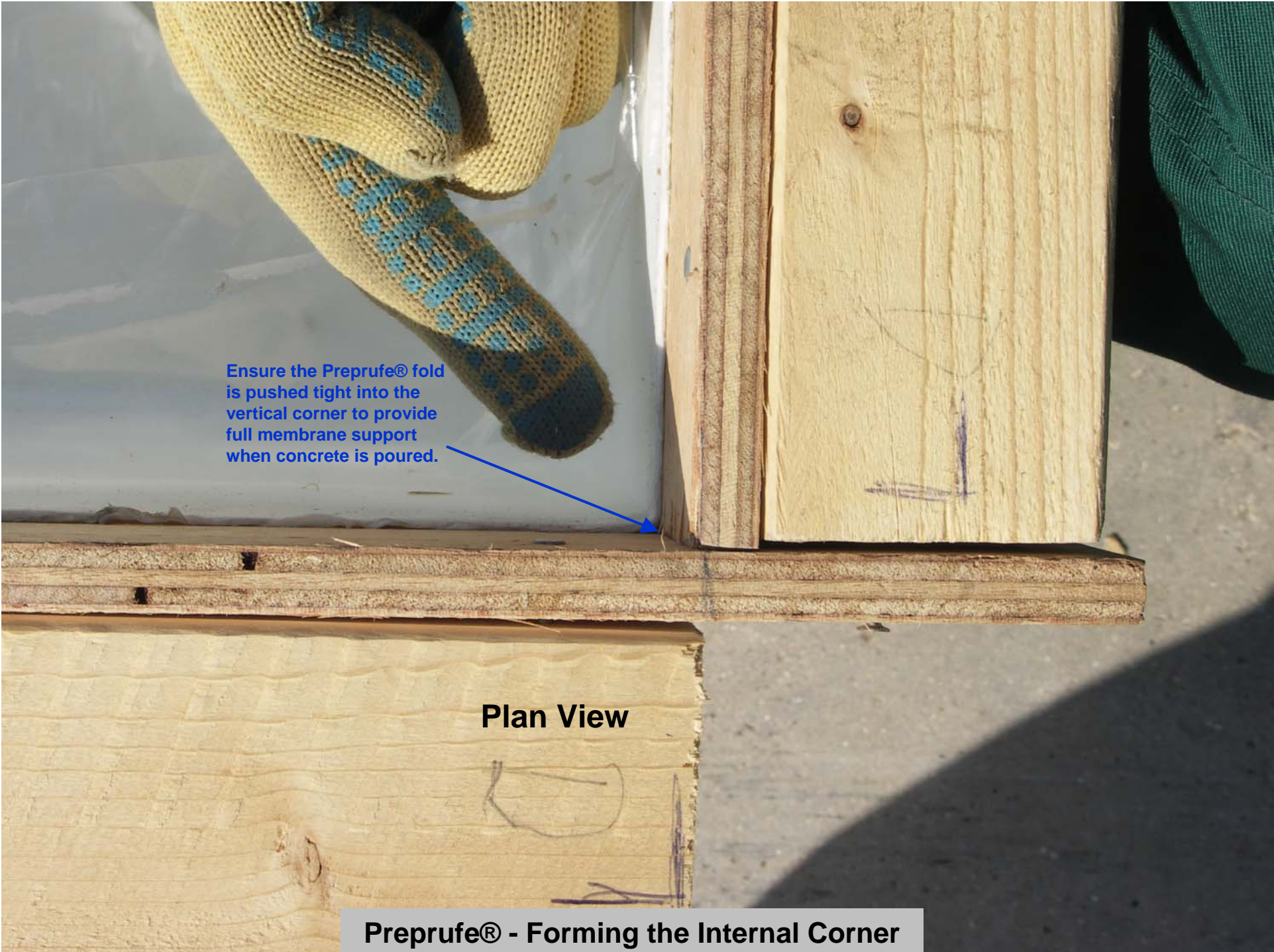
With the Preprufe internal corner to the shutter, firmly crease the diagonal fold

**Preprufe® - Forming the Internal Corner**



Ensure the Preprufe® fold is pushed tight into the vertical/horizontal corner to provide full membrane support when concrete is poured.

**Preprufe® - Forming the Internal Corner**



Ensure the Preprufe® fold is pushed tight into the vertical corner to provide full membrane support when concrete is poured.

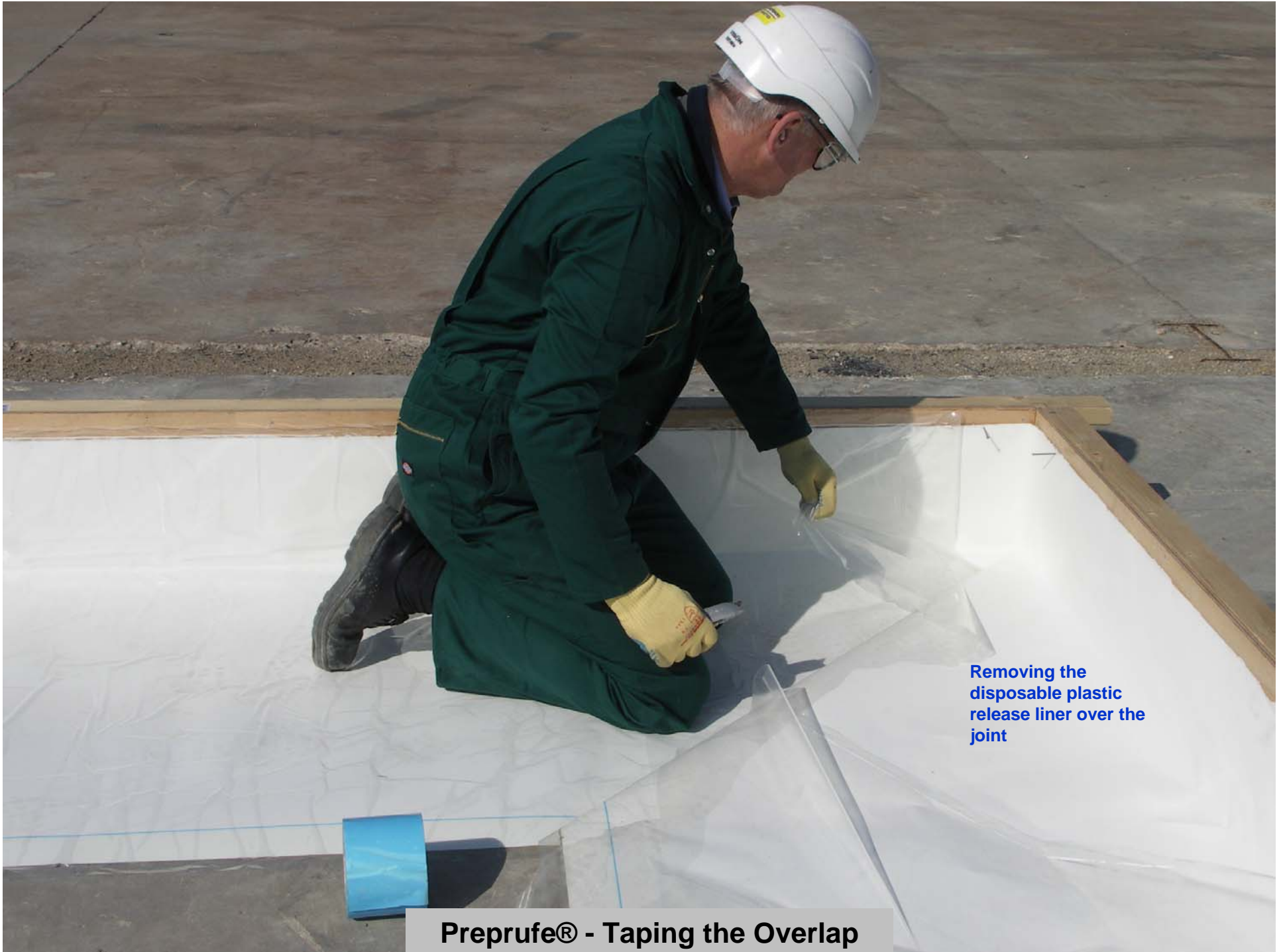
Plan View

Preprufe® - Forming the Internal Corner



Nail heads left exposed to be encased in concrete

**Preprufe® - Securing to Formwork**



Removing the  
disposable plastic  
release liner over the  
joint

**Preprufe® - Taping the Overlap**



Keep the site safe and tidy and return the release liner to the empty Preprufe® box ready for disposal in line with local regulations

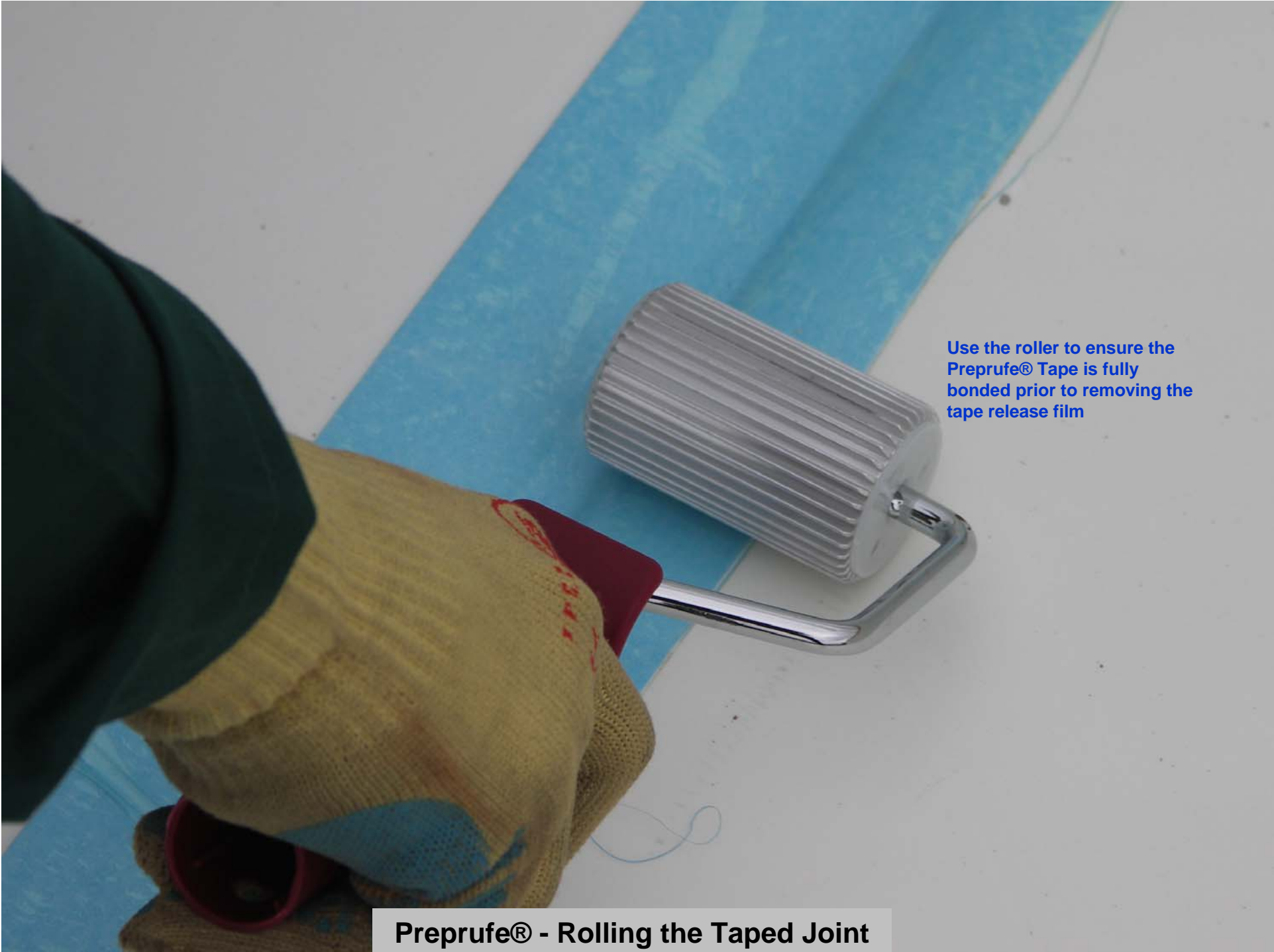
Site Tidy



**Preprufe® Tape applied to the diagonal fold to prevent grout lifting the Preprufe® during concrete placement.**

**Press the Preprufe® Tape tight into the edge of membrane.**

**Preprufe® - Taping the Overlap**



Use the roller to ensure the Preprufe® Tape is fully bonded prior to removing the tape release film


**Preprufe® - Rolling the Taped Joint**





Remove the release  
liner from the applied  
Preprufe® Tape

**Preprufe® - Taping the Overlap**



Press the Preprufe® Tape tight to the membrane and ensure there are no seepage paths between layers

**Preprufe® - Taping the Overlap**



Note nails only partly driven home to provide a key to the concrete and prevent the Preprufe® coming away from the concrete when the shutter is struck

**Preprufe® - Securing to Formwork**

# Preprufe® - Installation Instructions

## The External Corner

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Position the Preprufe and cut from the external corner

**Preprufe® - External Corner Detail**



Cut a Preprufe® infill section

**Preprufe® - External Corner Detail**



Cut a Preprufe® infill section to fit the external corner profile

**Preprufe® - External Corner Detail**



Position the Preprufe®  
infill section

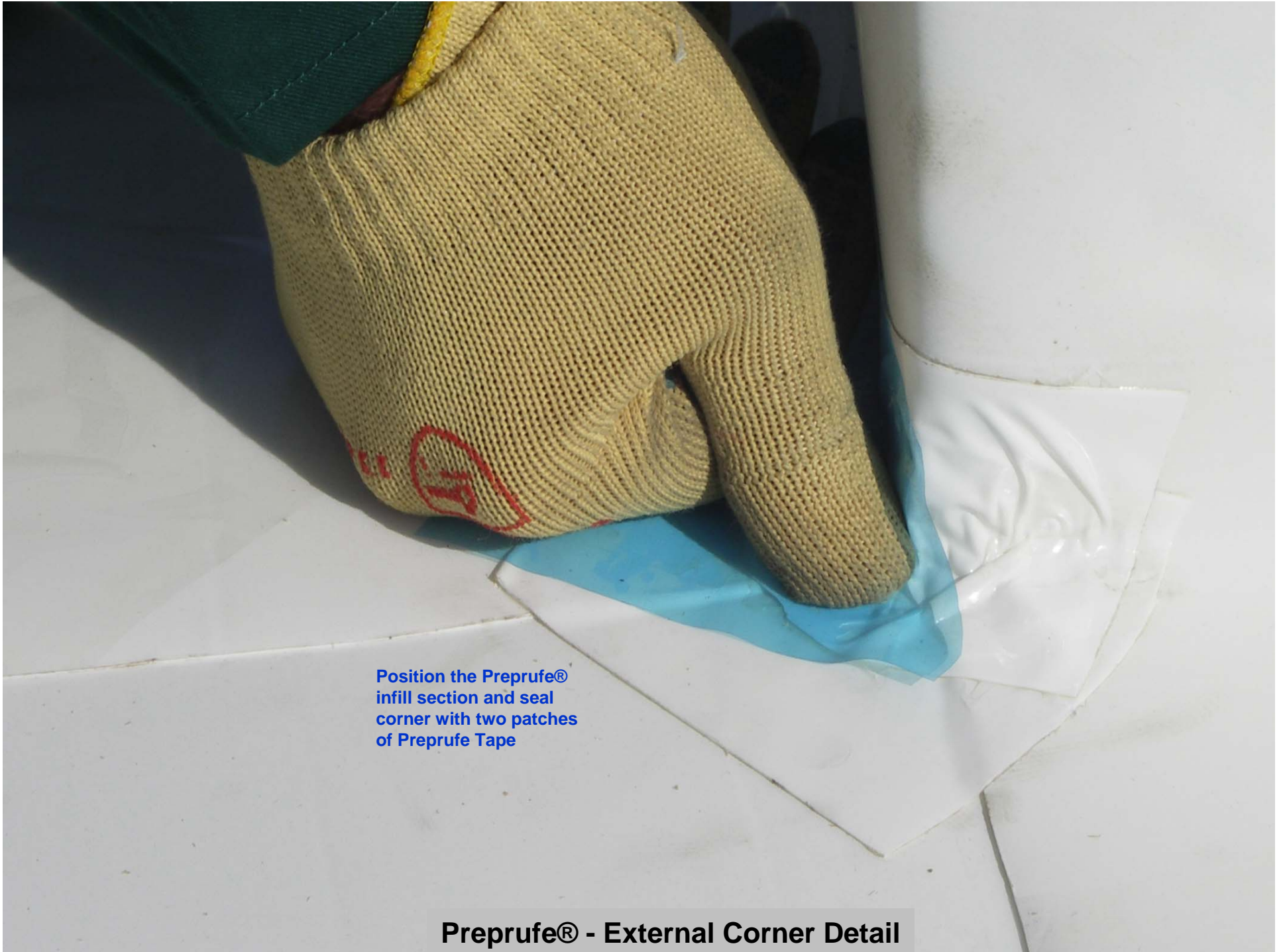
**Preprufe® - External Corner Detail**





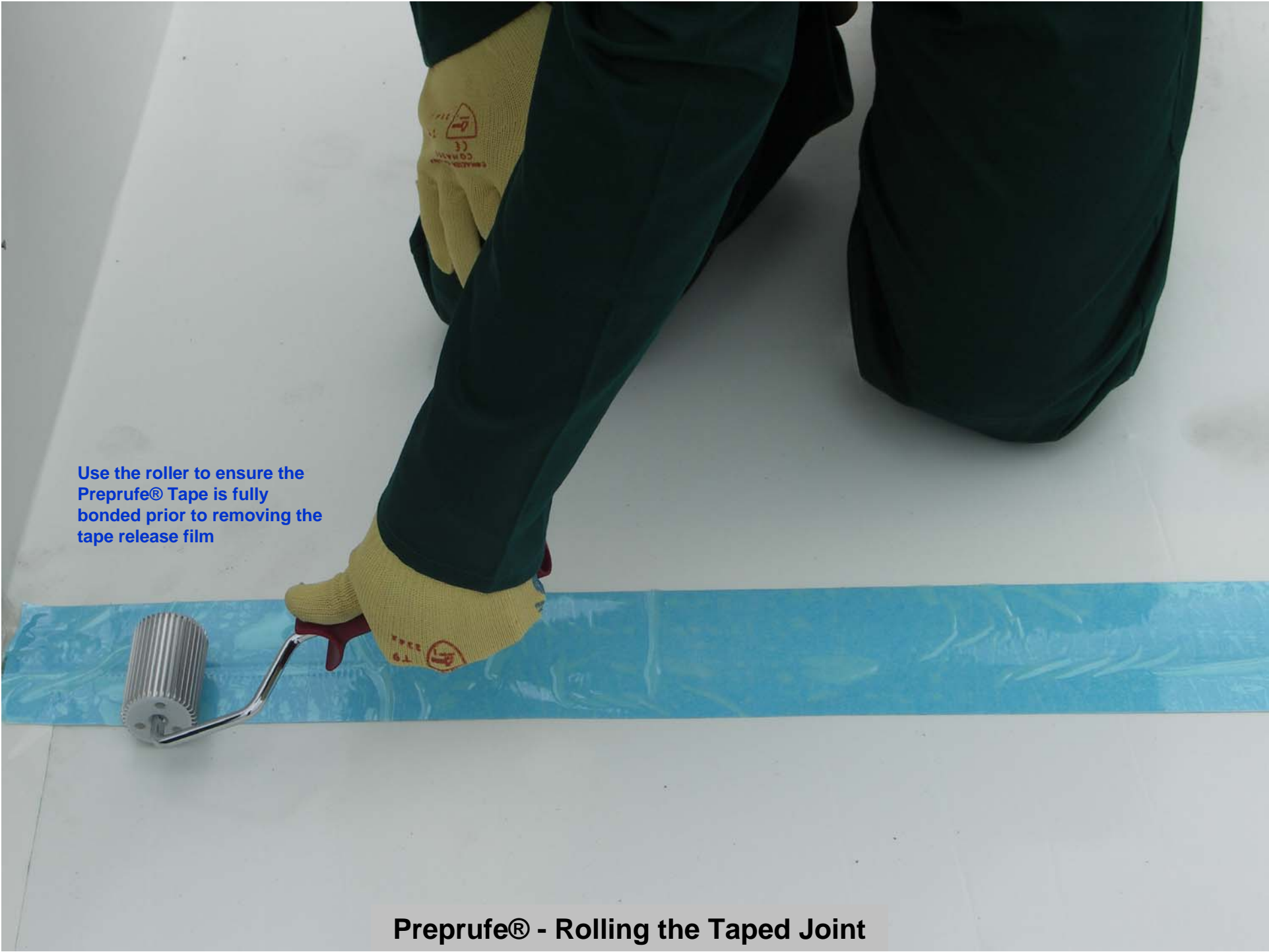
Position the Preprufe®  
infill section

**Preprufe® - External Corner Detail**



Position the Preprufe®  
infill section and seal  
corner with two patches  
of Preprufe Tape

**Preprufe® - External Corner Detail**



Use the roller to ensure the Preprufe® Tape is fully bonded prior to removing the tape release film

**Preprufe® - Rolling the Taped Joint**

# Preprufe® - Installation Instructions

## Adjacent lengths



**Preprufe® - Installation of Adjacent Sheets**



Overlap all roll ends and cut edges by a minimum of 75mm and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry before applying Preprufe® Tape.

**Preprufe® - Installation of Adjacent Sheets**



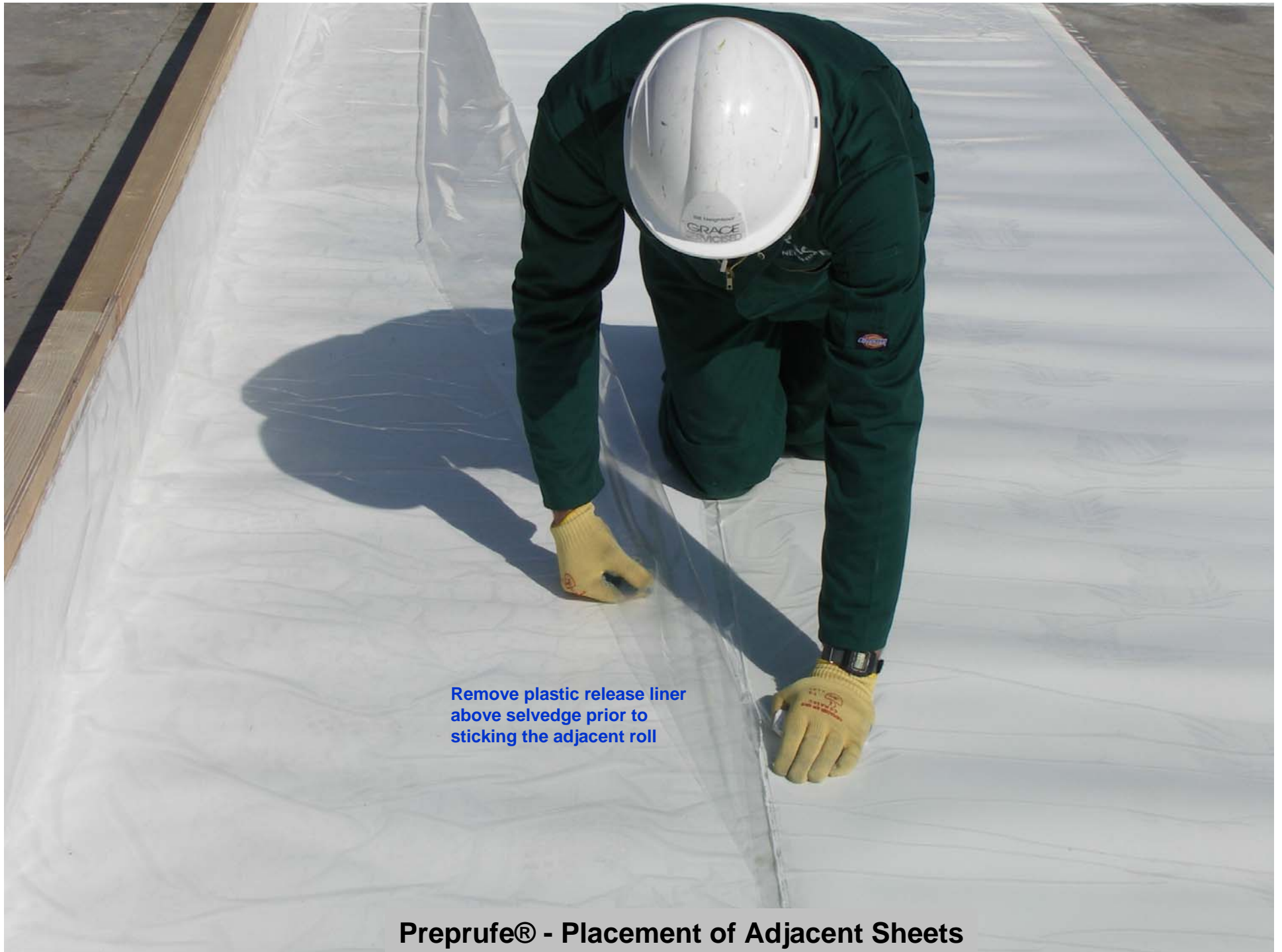
**Preprufe® - Placement of Adjacent Sheets**



Clean the underside edge of the adjacent roll of Preprufe® for good adhesion to the selvedge below

**Preprufe® - Placement of Adjacent Sheets**





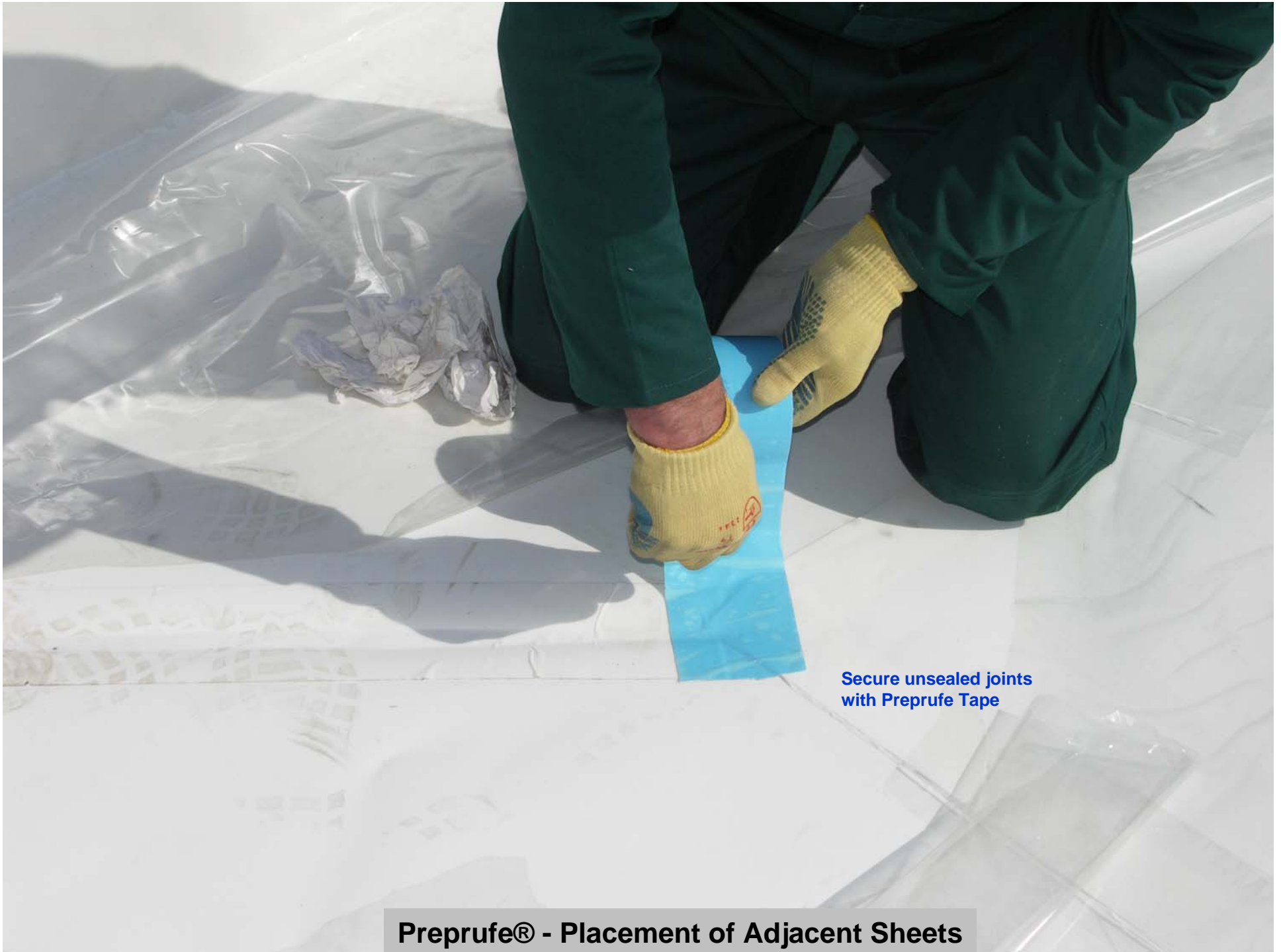
Remove plastic release liner  
above selvedge prior to  
sticking the adjacent roll

**Preprufe® - Placement of Adjacent Sheets**



Use the roller to ensure the Preprufe® selvedge laps are fully bonded prior to removing the release film

**Preprufe® - Placement of Adjacent Sheets**



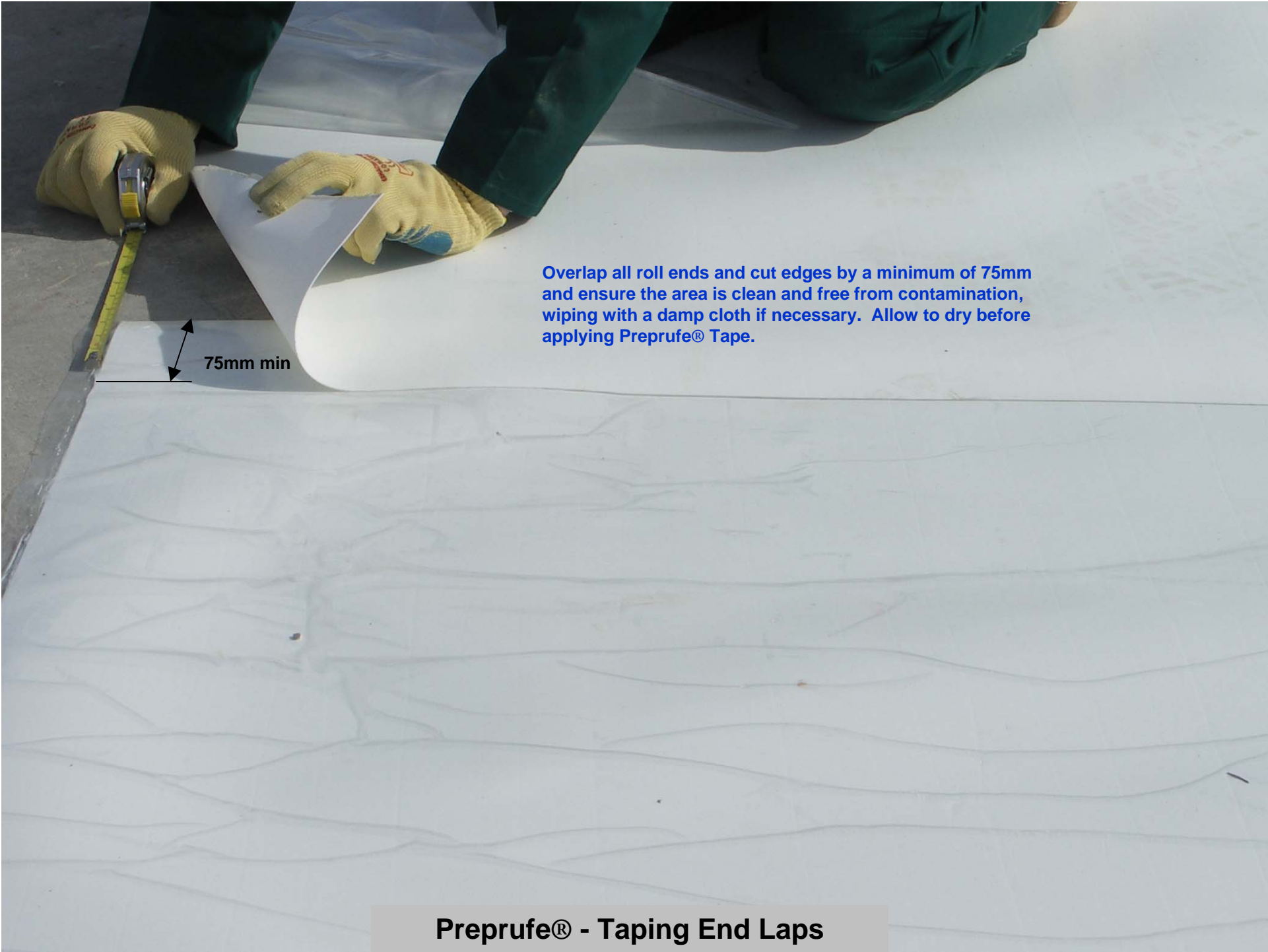
Secure unsealed joints  
with Preprufe Tape

**Preprufe® - Placement of Adjacent Sheets**



Secure unsealed joints  
with Preprufe® Tape

**Preprufe® - Over taping at Corners**



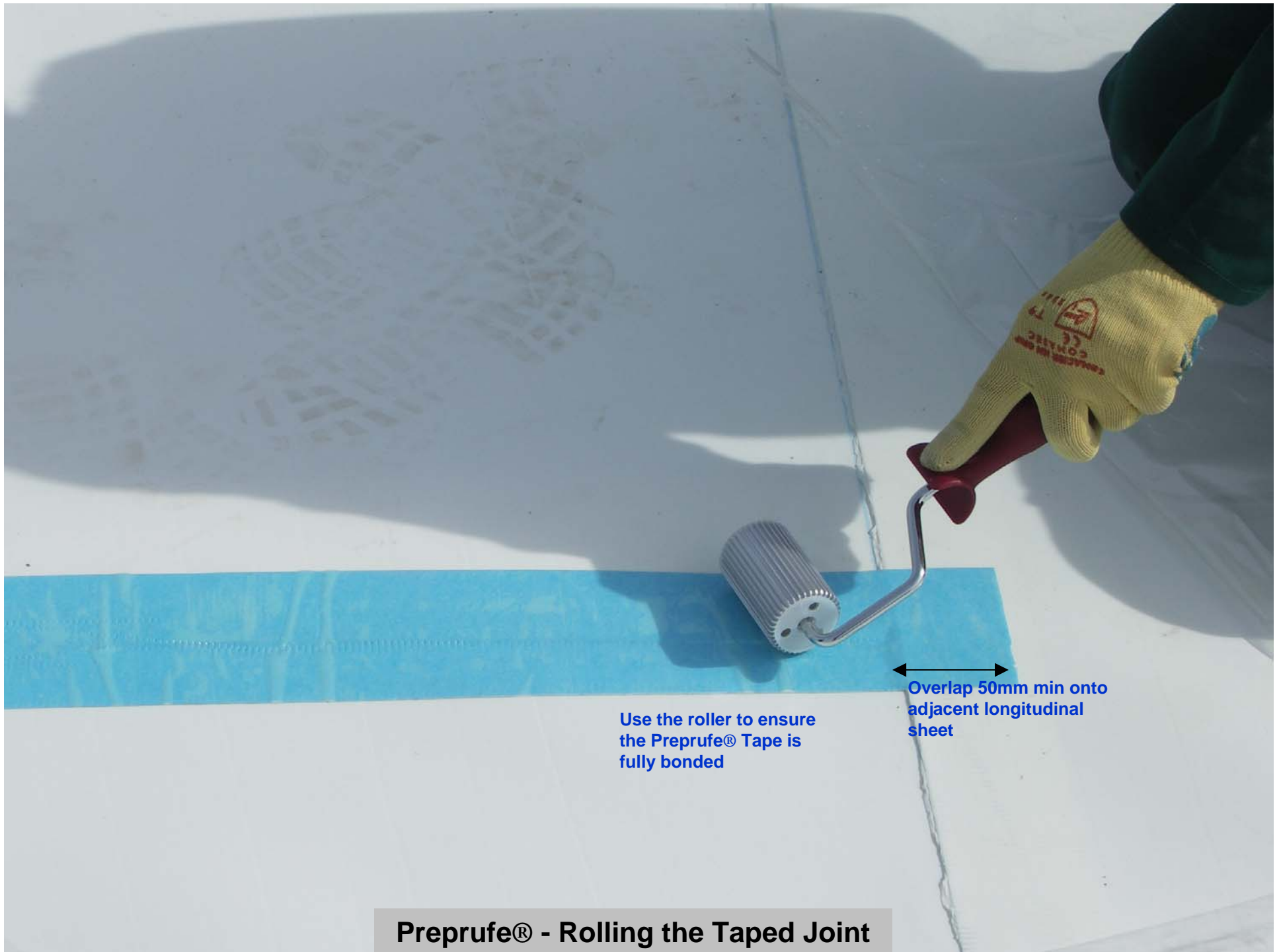
Overlap all roll ends and cut edges by a minimum of 75mm and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry before applying Preprufe® Tape.

75mm min

**Preprufe® - Taping End Laps**

# Preprufe® - Installation Instructions


## End of roll or cut end joints



Use the roller to ensure the Preprufe® Tape is fully bonded

Overlap 50mm min onto adjacent longitudinal sheet

**Preprufe® - Rolling the Taped Joint**



End laps should be staggered to avoid a build up of layers. Leave release liner in place until overlap procedure is completed.

**Preprufe® - The Completed End Laps**





Remove the plastic  
release liner

**Preprufe® - Application Complete**



Keep the site safe and tidy and return the release liner to the empty Preprufe® box ready for disposal in line with local regulations

Site Tidy




**Preprufe® - the completed base**

# Preprufe® - Installation Instructions

## Membrane Repair

Inspect the membrane before installation of reinforcement steel, shuttering and final placement of concrete. The membrane can be cleaned easily by jet washing if required.

A close-up photograph of a damaged white surface, likely a wall or ceiling. The damage consists of a central area where the white material has been chipped away, revealing a darker, textured substrate. To the left, the tip of a silver utility knife with a yellow handle is visible, having just been used to create the damage. To the right, a yellow, textured brush or sponge is positioned, ready for use. The background is a plain, light-colored surface with some faint smudges.

Repair damage by wiping the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry.

**Preprufe® - Damage Repair**

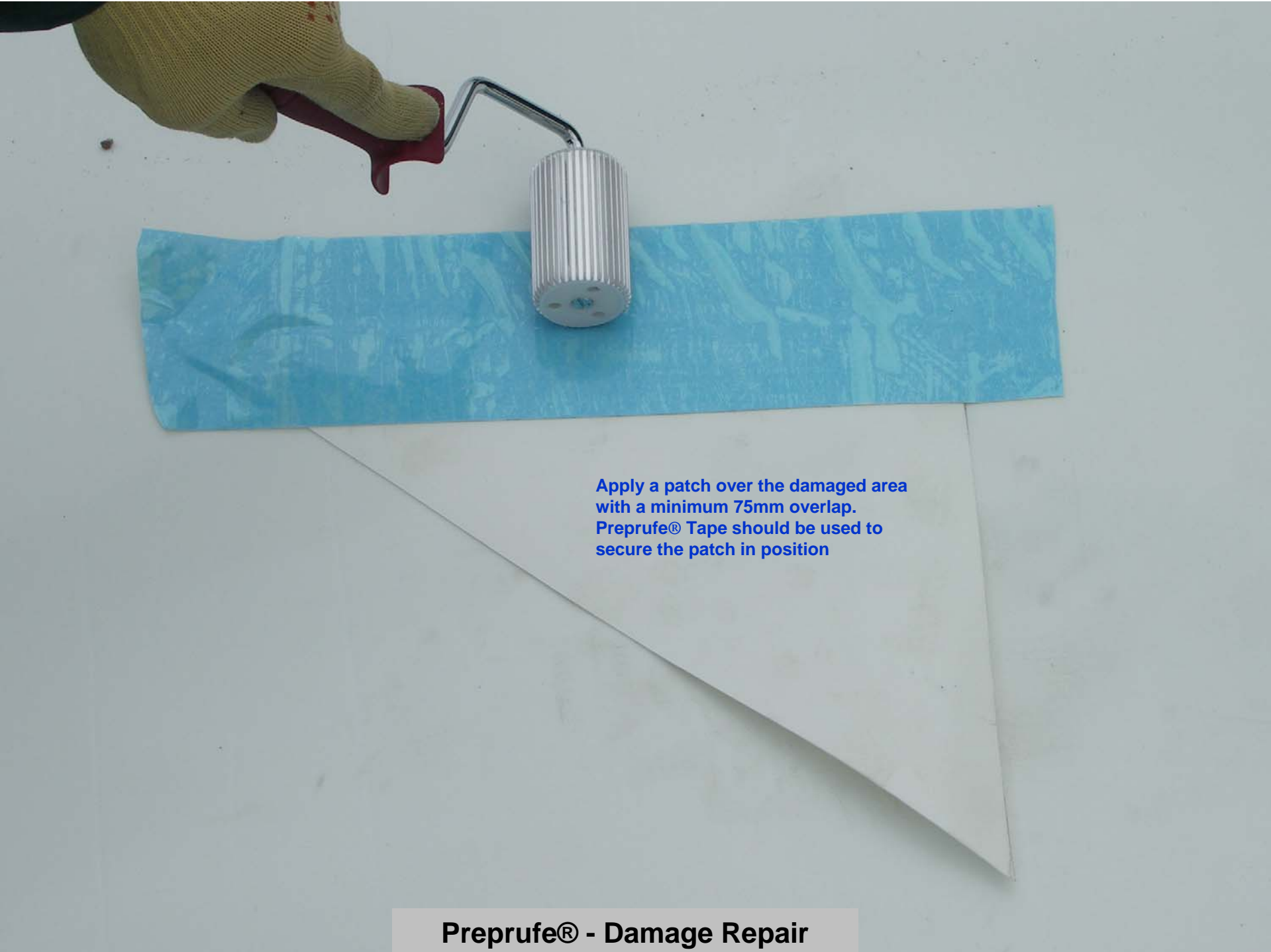
Cut out and remove damaged area  
with suitable knife and remove  
protrusion



**Preprufe® - Damage Repair**

Cut out and remove damaged area  
with suitable knife and remove  
protrusion


**Preprufe® - Damage Repair**



Apply a patch over the damaged area with a minimum 75mm overlap. Preprufe® Tape should be used to secure the patch in position

**Preprufe® - Damage Repair**





Apply a patch over the damaged area  
with a minimum 75mm overlap.  
Preprufe® Tape should be used to  
secure the patch in position

**Preprufe® - Damage Repair**



Preprufe® adhesive removed  
from carrier film

**Preprufe® - Damage Repair**

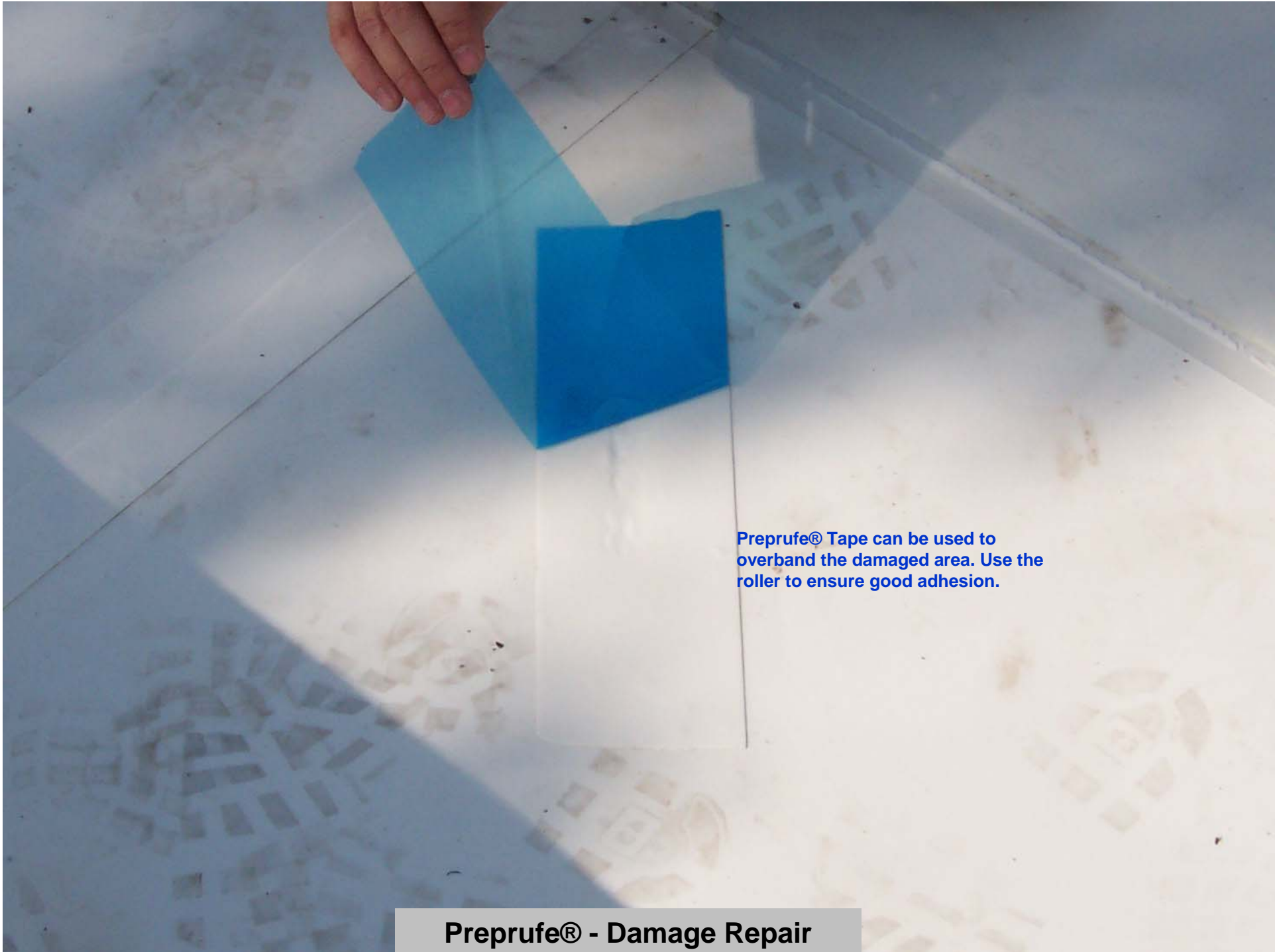


Preprufe® Tape can be used to overband the damaged area. Use the roller to ensure good adhesion.

**Preprufe® - Damage Repair**



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Preprufe® Tape can be used to overband the damaged area. Use the roller to ensure good adhesion.

**Preprufe® - Damage Repair**

# Bituthene Application

Bituthene is applied after the concrete or masonry structure has been built

# Installation of Pre-applied membrane Preprufe



# Installation of Post-applied membrane Bituthene



Self adhesive  
Membrane  
Post-applied

Pre-applied  
Membrane

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# Bituthene Application



**Self adhesive  
Membrane  
Post-applied**

**Pre-applied  
Membrane**

**GRACE**