

# WALL SEAL™ INSTALLATION INSTRUCTIONS

## CONTENTS

1. General Information.....	1	5. Bonding Sheet to Substrate.....	2
2. Materials .....	1	- NobleBond EXT .....	2
3. Planning & Layout.....	1	- Latex Modified Thin-Set Mortar .....	2
4. Preparation & Procedures.....	2	- Seaming & Joining.....	2
- Inspection.....	2	6. Tile Installation.....	3
- Substrates.....	2	7. Limitations.....	3
		8. Warranty.....	3
		9. CAD Details.....	3

## 1. GENERAL INFORMATION

**1.1** Wall Seal is a composite sheet membrane made from an impervious polymer with non-woven fiber laminated to both sides. Wall Seal is for waterproofing walls in wet areas.

### NOTES:

- a) Install in strict compliance with these instructions and comply with applicable ANSI standards, Tile Council of North America (TCNA) recommendations and building codes.
- b) For any procedure not covered by these instructions, contact Noble Company.

STANDARD:	ASTM E 96 Procedure A	ASTM E 96 Procedure E	ANSI A118.10
Description:	Moisture/Vapor Transmission Rate	Moisture/Vapor Transmission Rate	Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations
Rating:	.22 perms	.42 perms	Passed

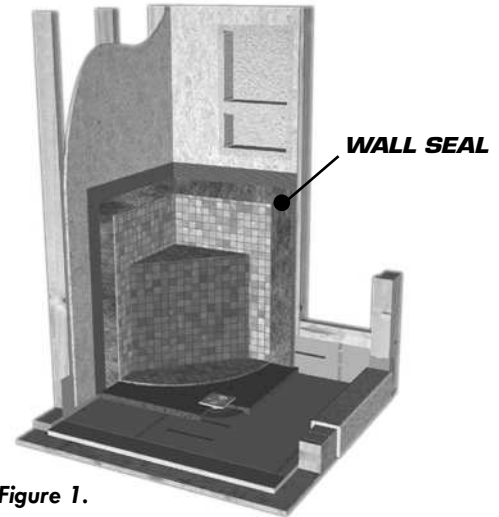


Figure 1.

## 2. MATERIALS

**2.1 MEMBRANE:** Wall Seal is a thin 0.025" (0.63mm) load bearing, bonded, sheet membrane for vertical waterproofing applications.

**2.1.a COMPOSITION:** Wall Seal is a composite sheet made from an impervious polymer with a non-woven fabric laminated to both sides.

**2.2 BONDING AGENT:** Wall Seal should be bonded to substrate with NobleBond EXT or latex modified thin-set mortar. Thin-sets must conform to ANSI A118.4, the appropriate standards, and TCNA Handbook recommendations. Follow manufacturer's instructions.

### NOTE:

a) Job-site mortar mixes must conform to ANSI A108.5 and A118.4.

**2.3 WATERPROOF SEALANT:** Use NobleSealant 150 to seam sheets, seal penetrations (i.e., pipes, wire) and as a concealed terminal edge sealant.

**2.4 TOOLS:** Normal tile setting tools plus scissors or utility knife, hand roller and commercial grade caulk gun.

## 3. PLANNING & LAYOUT

**3.1 MEMBRANE:** Quantity of Wall Seal sheet required should include waste and seams (sheets should be overlapped 2").

**3.1.a SHEET DIMENSION:** 6' x 66.7' = 400 sq. ft. (1.8 m x 20.3 m = 37.16m<sup>2</sup>). Nominal thickness 0.025" (.63mm).

### 3.2 SHEET BONDING AGENT:

**3.2.a NobleBond EXT:** Porosity and condition of the substrate can affect coverage, but NobleBond EXT will generally provide the following coverage: 90 to 110 sq. ft./gallon.

**NOTE:** NobleBond EXT allows for more movement than cement based mortar. Tile can be installed immediately after sheet is embedded. Refer to installation instructions on label.

**3.2.b Latex Modified Thin-Set:** See manufacturer's coverage rate for 1/8" to 1/4" v-notched trowel.

**3.2.b.1 Cold Weather Procedure:** Consult bonding agent manufacturer for safe low-temperature limits and cure times. Noble Company sheet products remain flexible to -25°F.

**3.2.b.2 Hot Weather Procedure:** Consult bonding agent manufacturer for safe high-temperature limits and mixing procedures for these specific conditions. Control high temperature by shading, misting substrate with water, working at night or any combination of these techniques.

**3.3 NOBLESEALANT 150:** A 10.3 oz. tube of NobleSealant 150 seams approximately 40 linear feet.

**3.4 LAY OUT:** Wall Seal can be installed horizontally or vertically on walls. Horizontal is generally preferable since it minimizes seams. Sheet may be measured, folded and cut prior to installation. Seams require 2" overlap of sheets and should be shingled (i.e. upper overlaps lower sheet).

## 4. PREPARATION & PROCEDURES

**RECOMMENDED:** Test materials and method under job-site conditions to confirm suitability.

**4.1 INSPECTION:** Substrate must meet requirements set forth by local codes, TCNA and ANSI standards. Report in writing any deficiencies that might affect performance of the system.

**NOTES:**

- a) Wall Seal will not compensate for structural deficiencies in the substrate.
- b) Review all detail drawings (see section 9 - CAD DETAILS).

**4.2 SUBSTRATES:** Must be flat and plumb.

**4.3 INSTALLER:** Must be familiar with Noble Company's current written instructions, TCNA Handbook recommendations and ANSI A108 standards.

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## 5. INSTALLATION PROCEDURES

### 5.1 BONDED:

**5.1.a** Clean and prepare substrate as if bonding tile without sheet. Bond sheet with either of the following:

- 1) **NobleBond EXT:** Refer to NobleBond EXT Installation Instructions.
- 2) **Latex Modified Thin-Set:** Spread thin-set with appropriate trowel to achieve full contact (e.g. 1/8" to 1/4" "V"-notch). Trowel an area as wide as the sheet. In order to avoid trapping air under the sheet, trowel mortar in parallel rows across the width or length of the sheet.

**NOTES:**

- a) Variation in trowel size, angle at which trowel is held, mixing ratio or any combination thereof may be necessary to achieve maximum contact. Fine notched trowels increase "skinning" rate.
- b) All ridges of bond coat must be parallel to allow air under sheet to escape when embedding.

**5.1.b LAY SHEET:** Unroll sheet into bonding agent before it dries and begins to form "skin".

**5.1.c EMBED SHEET:** Embed Wall Seal into bond coat (flatten all trowel ridges). Work from center of sheet to edges. Pull roller edge-to-edge in overlapping passes. Start at end of first sheet installed, progressing to area installed last.

**5.1.d COVERAGE:** Complete coverage of substrate and full penetration of bond coat into the fabric is required. Prior to curing, lift sheet and inspect for full contact. If rows or ridges of bonding agent are seen, membrane has not been properly embedded and additional rolling or bonding agent is necessary. 100% coverage is desired.

**NOTE:**

- a) Wall seal can be installed behind backer board or bonded to a suitable substrate.
- b) A vapor barrier which is generally installed in showers is not required when Wall Seal is installed. Use of both may encapsulate moisture between the membranes.

**5.2 SEAMING AND JOINING** When more than one sheet is needed, use NobleSealant 150 to seam sheets together.

NobleSealant 150 is applied with a commercial grade caulk gun, and requires 2 parallel beads for seaming and joining. Seam areas must be clean and free of bond breakers (mortar, adhesives, etc.).

#### 5.2.a NobleSealant 150

**5.2.a.1** Overlap sheets 2" (50mm) minimum.

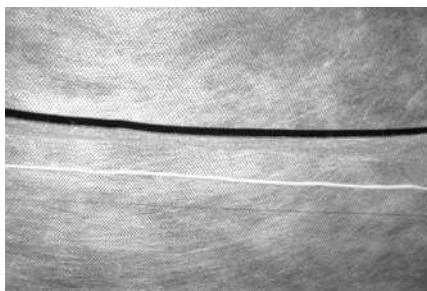
**5.2.a.2** Apply 3/16" bead 3/4" from edge of sheet being overlapped.

**5.2.a.3** Overlap sheets and flatten with roller or by pressing with flat edge of trowel or hand roller.

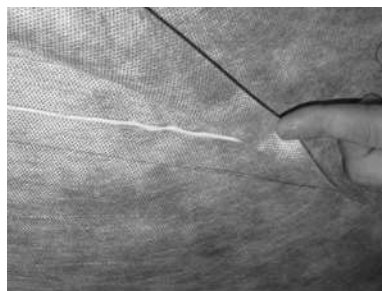
**NOTE:** Beads must be continuous without skips or voids.



*Use rubber hand roller or flat side of trowel with heavy pressure.*



*Apply bead of NobleSealant 150.*



*Overlap sheets.*



*Press seam.*

**5.3 PROTECTION OF SHEET:** After installation, sheet must be kept clean to enable tile adhesive to bond. Protect the installed sheet from damage.

## 6. TILE INSTALLATION

6.1 Set tile in accordance with TCNA Handbook recommendations, ANSI A108 standards and bond coat manufacturer's directions. Complete coverage of Wall Seal by the bond coat is required.

### NOTES:

- a) Refer to bond coat manufacturer's instructions for cure time and suitability. Allow additional time (approximately 50%) when installed over Wall Seal.
- b) Rapid-curing type of latex modified thin-set mortar may be used with approval of mortar manufacturer.
- c) For any procedure not covered by these instructions, contact Noble Company.

## 7. LIMITATIONS

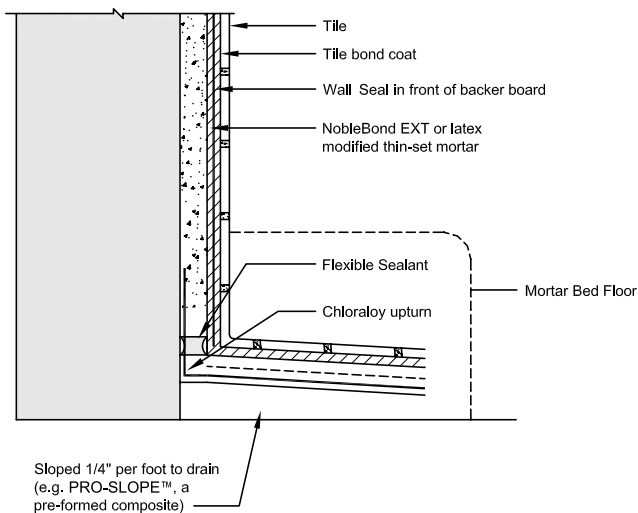
Wall Seal is not designed for use as a wearing surface, exterior application, or floor. For any application not specifically detailed in the installation instructions, contact Noble Company.

## 8. WARRANTY

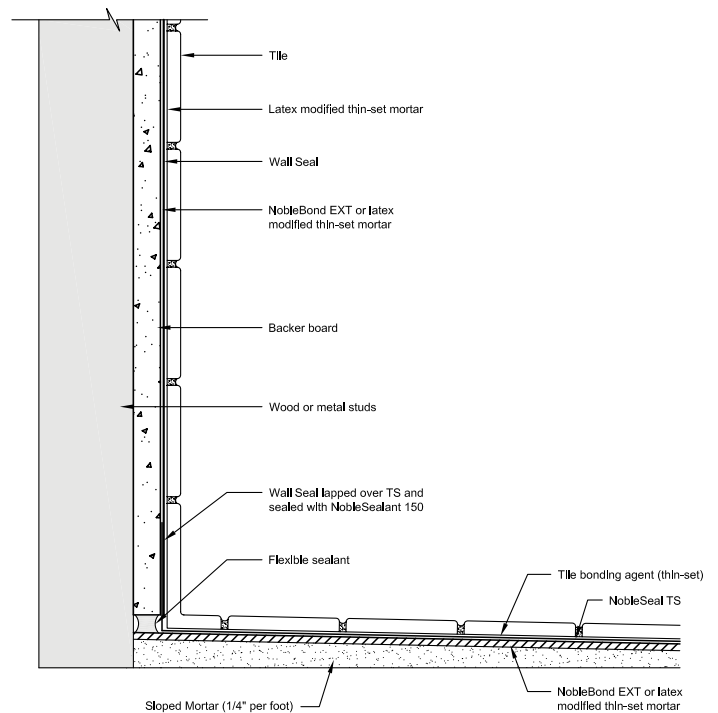
Wall Seal is guaranteed by Noble Company for 10 years against rotting, cracking and microorganism deterioration when properly installed in systems for which its use is recommended by Noble Company. This warranty is limited to the replacement of defective material and freight charges to destination only. There are no other expressed or implied warranties and this warranty is in lieu of any other warranty, including, but not limited to, implied warranties of merchantability and fitness for purpose. Noble Company is not responsible for consequential damages. The remedy of the purchaser set forth herein is exclusive.

## 9. CAD DETAILS - NOT TO SCALE

**Figure 2. SHOWER – WALL SEAL MEMBRANE BONDED OVER BB WITH CHLORALOY SHOWER PAN**

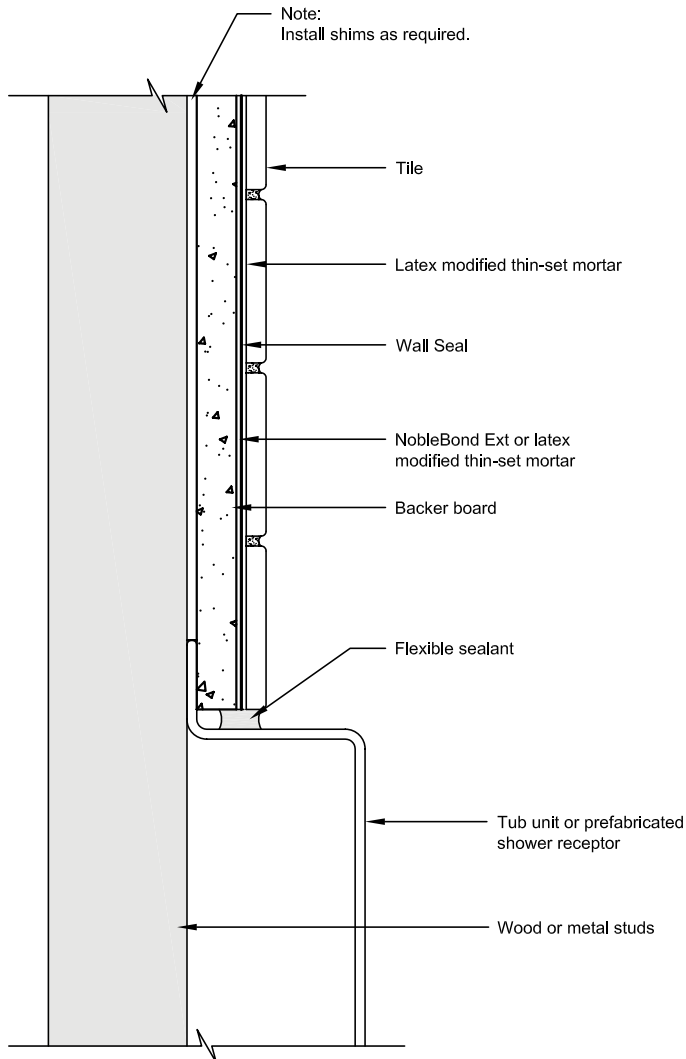


**Figure 3. THIN-SET SHOWER**



## 9. CAD DETAILS - NOT TO SCALE (con't.)

Figure 3. TUB SURROUND



### OTHER SHEET MEMBRANES FROM NOBLE COMPANY: CHLORALOY®

**The original CPE shower pan liner for full mortar bed applications.**

An unsupported CPE sheet membrane 1mm (3/64") thick. Provides waterproofing under full mortar bed installations of tile, marble and terrazzo. Isolates the finished surface from cracks in the substrate. Thirty years of demanding applications.

### NOBLESEAL TS®

NobleSeal TS is a composite made from Chlorinated Polyethylene (CPE) with non-woven fabric laminated to both sides. TS is designed to provide thin bed waterproofing and crack isolation of thin-set tile. May also be used to bridge control joints. Suitable for interior applications in new construction and renovation projects. Meets ANSI A118.10 standard.

### NOBLESEAL CIS

**Crack isolation sheet for thin bed ceramic, dimension stone and terrazzo tile in new or renovation projects.**

A composite of (CPE) with a high-strength, non-woven fabric material laminated to both sides .8mm (1.32") thick. The elastomeric properties of CIS allow it to function as a stress relief membrane, protecting the tile from movement in the substrate. Use with any tile or marble installed by a thin bed method over common substrates.

### NOBLESEAL SIS

**Reduces floor to floor impact noise created by hard surface flooring like tile and hardwood floors.**

NobleSeal SIS is a composite sheet membrane consisting of non-woven fabric laminated to both sides of an acoustically formulated alloy of chlorinated polyethylene (CPE). Use a single ply of NobleSeal SIS as an acoustical treatment under hard surface flooring including ceramic tile, dimension stone, epoxy terrazzo, and hardwood floors to reduce airborne and impact sound transmission. In a thin-bed method, the sheet with bonding agent is typically 3mm (1/8") or less. The sheet may also be incorporated into a full mortar bed installation without bonding to the substrate.

### NOBLE DECK™

**Exterior thin-set waterproofing and crack isolation sheet.**

Noble Deck is a composite, elastomeric sheet membrane engineered for exterior thin-set waterproofing and crack isolation applications. Suitable for new construction and renovation where ceramic, dimension stone, agglomerated or terrazzo tile is used. May also be used to bridge control joints.

Form WS INST 09/12  
Supersedes 02/09



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