
1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for installing Nudura parge coat product offerings including:
 - a. NUBASE
 - b. Horizon®
 - c. NUBASE + Horizon combination
- 1.2 The techniques involved may require modifications to adjust to jobsite conditions. Nudura recognizes that site-specific conditions, weather patterns, contractor preferences, and detailing, may require deviation or alteration from these prescribed installation procedures. When such circumstances exist on a project, it is recommended that the local Nudura/Tremco Sales Representative or Technical Services be contacted for assistance and approval as required.

2. SCOPE

- 2.1 This document will provide the necessary instructions for the application of Nudura parge coat product offerings to finish the wall surface between the waterproofing/dampproofing or finish grade level to the underside of the exterior finish.

3. APPLICATION OPTIONS

- 3.1 NUBASE- 2 coat application with fiber mesh
 - Mixed with water, trowel applied
 - Hard cementitious coat to the touch
- 3.2 Horizon- 2 coat application
 - Roller applied direct from pail
 - 'Spongy' feeling to the touch, with some memory/bounce back
 - Greater impact resistance to direct strike- string trimmer, lawn mower, etc...
 - Easily repaired
- 3.2 NUBASE + Horizon combination- Base coat of NUBASE with Fiber Mesh, finish coat of Horizon
 - NUBASE with mesh provides a hard surface below the Horizon
 - Removes the 'Spongy' feeling of just having Horizon
 - Greater impact resistance to direct strike- string trimmer, lawn mower, etc...
 - Easily repaired

4. POSSIBLE SYSTEM COMPONENTS

- 4.1 Recommended Materials and their use are as follows. For more information on the following materials please refer to www.tremcosealants.com and www.nudura.com or contact the local Nudura/Tremco Sales Representative or Technical Services Representative.
 - Tremco Dymonic® 100
 - Tremco TREMPRO 540
 - Tremco TREMPRO™ 160
 - Tremco Paraterm® Bar
 - Tremco TREMDRAIN® Series Drainage Mats and Protection Boards
 - Tremco TREMprime® ICF
 - Tremco ExoAir® LEF
 - Nudura® Low Expansion Foam

5. LIMITATIONS

- 5.1 Nudura Parge Coatings are not to be installed over snow, ice, frost, wet or contaminated substrates
- 5.2 Nudura Parge Coatings can be applied over Nudura ICF, when applying to other substrates, contact your local Nudura Representative for project specific requirements
- 5.3 Nudura Parge Coatings should not be installed if rain is expected within 24 hours
- 5.4 Nudura Parge Coatings should not be installed if weather is expected to drop below 32°F (0°C) within 24 hours of application
- 5.5 NUBASE Application Temperatures: minimum 39°F (4°C)
- 5.6 Horizon Application Temperatures: 32°F (0°C) to 100°F (38°C)
- 5.7 Horizon is not suitable for below-grade applications in excess of 12" (305 mm) below grade

6. STORAGE

- 6.1 Store Nudura Parge Coatings in original, undamaged packages in a clean, dry, protected location with temperatures not exceeding 100 °F (38 °C)
- 6.2 Horizon should be protected from freezing
- 6.3 Parge Coatings should be protected from moisture and weather, and prevented from exposure to direct sunlight

7. SUBSTRATE PREPARATION

- 7.1 EPS foam must be rasped* and brushed clean prior to the installation of the parge coat to improve coating adhesion, and to remove waves, bumps, and the yellow dust coating resulting from UV degradation. It may be necessary to wash the wall with water to remove any remaining dust and debris and allow the wall to dry prior to application
- 7.2 Surface to be parged must be clean, and free from release agents, dust, mud, loose mortar, wires, fins, metal projections or any other substances that might prevent placement and bonding of the parge coatings

*Rasping tools commonly used for the EIFS stucco market work ideally for this purpose. Consult with your local builder supply warehouse for these types of specialty tools.

8. DETAIL WORK

- 8.1 Apply cant bead of Dymonic 100 minimum $\frac{1}{2}'' \times \frac{1}{2}''$ (25 mm x 25 mm) around protrusion onto substrate and penetrating item.
- 8.2 Prep all gaps, cuts and joints with Dymonic 100, ExoAir LEF or Nudura Low Expansion Spray Foam. Tool or rasp excess material flat before application of the parge coat.

9. APPLICATION PROCEDURE

OPTION 1- NUBASE

- 9.1 One 50 lb (22.7kg) bag of NUBASE will produce approximately 5 gal (19 L)
- 9.2 Add 6-7 qt (5.7 – 6.6 L) of clean, potable water, into a clean plastic container
- 9.3 Gradually add the NUBASE, while continually mixing with a 'Twister' paddle or equivalent mixing blade, until a workable consistency is obtained
- 9.4 Let the mixture stand for five minutes, then remix, adding a small amount of water if necessary. Material must be free of lumps before using
- 9.5 Pot life is roughly 1 – 1 1/2 hours, depending on site conditions
- 9.6 Mixture may be remixed one time only. Discard any material that has begun to stiffen
- 9.7 NUBASE can be trowel-applied with a stainless-steel trowel, or spray applied through a $\frac{1}{4}''$ (6 mm) orifice at 20 psi (138 kPa)

Base Coat

- 9.8 Apply the base coat of NUBASE to the wall surface. Single individual coats should not exceed $\frac{1}{8}''$ (3 mm) in thickness
- 9.9 Fully embed the fiberglass reinforcing mesh in the wet base coat, troweling from the center to the edge of the reinforcing mesh to help avoid wrinkles
- 9.10 The reinforcing mesh shall be continuous at all corners and lapped a minimum of $2\frac{1}{2}''$ (63mm) at all seams
- 9.11 It is recommended that a double mat of fiber mesh is installed on inside corners, outside corners, and corners of openings
- 9.12 Apply additional NUBASE material, not exceeding the $\frac{1}{8}''$ (3mm) single coat thickness, until the mesh pattern is no longer visible
- 9.13 All hand tools used in the product application should be thoroughly cleaned with soap and warm water. Wipe off the excess product and then wash with soap and water, rinse, and let dry. The hand tools should be dry prior to storage

Finish Coat

- 9.14 If the base coat is left exposed for an extended period, wash the wall with water to remove dust and debris and allow the wall to dry prior to finish coat application
- 9.15 Allow the base coat to cure for a minimum of 24 hours prior to installing the Finish coat
- 9.16 Mix and apply the finish coat following the instructions listed above. The fiberglass reinforcing mesh is not to be installed in the finish coat
- 9.17 Architectural designs can now be created on the finish coat to suit the requirements of the structure
- 9.18 All hand tools used in the product application should be thoroughly cleaned with soap and warm water. Wipe off the excess product and then wash with soap and water, rinse, and let dry. The hand tools should be dry prior to storage

OPTION 2- Horizon

- 9.19 Prior to base coat or finish coat application shake or stir the pail of Horizon, thoroughly mixing the product to ensure a consistent mix throughout the pail
- 9.20 Horizon can be applied with a heavy nap roller, or spray applied with dispersion texture spray equipment designed to spray coating with aggressive textures. Avoid the use of high-pressure liquid spray equipment to prevent clogging when attempting to spray the Coarse Finish
- 9.21 If roll applying the Horizon, pour the material from the bucket into a paint tray
- 9.22 It is recommended that a 2-coat application is used to ensure proper coverage of the Nudura wall surface. It is recommended that a 40 wet mil thickness is applied for the base coat, with a 20 wet mil thickness applied as the finish coat. A single coat of product should not exceed 40 wet mils

Base Coat

- 9.23 Start product application at an outside corner. If applying with a roller use a smooth rolling motion, with limited pressure to prevent from thinning the coat. A horizontal or vertical rolling motion are both acceptable for base coat application
- 9.24 Use care around foundation openings and inside and outside corners to prevent excessive product application and to reduce sagging
- 9.25 If sagging occurs, immediately remove the product from the wall and re-apply
- 9.26 All hand tools used in the product application should be thoroughly cleaned with soap and warm water. Wipe off the excess product and then wash with soap and water, rinse, and let dry. The hand tools should be dry prior to storage

Finish Coat

- 9.27 If the base coat is left exposed for an extended period, wash the wall with water to remove dust and debris and allow the wall to dry prior to finish coat application
- 9.28 Allow the base coat to cure for a minimum of 24 hours prior to installing the finish coat
- 9.29 Mix and apply the finish coat following the instructions listed above, beginning application in the same outside corner as started with the base coat
- 9.30 If using a roller, it is recommended that a vertical rolling motion is used to ensure proper coverage over the cut lines in the face of the Nudura form
- 9.31 Architectural designs can now be created on the finish coat to suit the requirements of the structure
- 9.32 All hand tools used in the product application should be thoroughly cleaned with soap and warm water. Wipe off the excess product and then wash with soap and water, rinse, and let dry. The hand tools should be dry prior to storage

OPTION 3- NUBASE + Horizon combination

- 9.33 One 50 lb (22.7kg) bag of NUBASE will produce approximately 5 gal (19 L)
- 9.34 Add 6-7 qt (5.7 – 6.6 L) of clean, potable water, into a clean plastic container
- 9.35 Gradually add the NUBASE, while continually mixing with a ‘Twister’ paddle or equivalent mixing blade, until a workable consistency is obtained
- 9.36 Let the mixture stand for five minutes, then remix, adding a small amount of water if necessary. Material must be free of lumps before using
- 9.37 Pot life is roughly 1 – 1 1/2 hours, depending on site conditions
- 9.38 Mixture may be remixed one time only. Discard any material that has begun to stiffen
- 9.39 NUBASE can be trowel-applied with a stainless-steel trowel, or spray applied through a ¼" (6 mm) orifice at 20 psi (138 kPa)
- 9.40 Prior to finish coat application shake or stir the pail of Horizon, thoroughly mixing the product to ensure a consistent mix throughout the pail

Base Coat

- 9.41 Apply the base coat of NUBASE to the wall surface. Single individual coats should not exceed 1/8" (3 mm) in thickness
- 9.42 Fully embed the fiberglass reinforcing mesh in the wet base coat, troweling from the center to the edge of the reinforcing mesh to help avoid wrinkled
- 9.43 The reinforcing mesh shall be continuous at all corners and lapped a minimum of 2 ½" (63mm) at all seams
- 9.44 It is recommended that a double mat of fiber mesh is installed on inside corners, outside corners, and corners of openings

- 9.45 Apply additional NUBASE material, not exceeding the 1/8" (3mm) single coat thickness, until the mesh pattern is no longer visible
- Finish Coat**
- 9.46 If the base coat is left exposed for an extended period, wash the wall with water to remove dust and debris and allow the wall to dry prior to finish coat application
- 9.47 Horizon can be applied with a heavy nap roller, or spray applied with dispersion texture spray equipment designed to spray coating with aggressive textures. Avoid the use of high-pressure liquid spray equipment to prevent clogging when attempting to spray the coarse finish
- 9.48 If roll applying the Horizon, pour the material from the bucket into a paint tray
- 9.49 Allow the base coat to cure for a minimum of 24 hours prior to installing the Finish coat
- 9.50 Mix and apply the finish coat following the instructions listed above, beginning application in the same outside corner as started with the base coat
- 9.51 If using a roller, it is recommended that a vertical rolling motion is used to ensure proper coverage over the cut lines in the face of the Nudura form
- 9.52 Architectural designs can now be created on the finish coat to suit the requirements of the structure
- 9.53 All hand tools used in the product application should be thoroughly cleaned with soap and warm water. Wipe off the excess product and then wash with soap and water, rinse, and let dry. The hand tools should be dry prior to storage

10. BACKFILL

- 10.1 Parge Coat should be allowed to cure for a minimum of 24 hours prior to placing backfill against the wall
- 10.2 Use care during backfill operation to avoid damage to the parge coat surface. Follow generally accepted practices for backfilling and compaction
- 10.3 Use care to prevent permanent discoloration and soil staining of the parge coat surface during the construction process. Parge coat surface should be wash clean as necessary to prevent permanent discoloration and soil staining

11. REPAIR

- 11.1 NUBASE
- Begin the by removing any loose NUBASE material or any other debris from the damaged area
 - If the foam surface below the NUBASE coating is severely damaged, use Nudura Low Expansion Foam to fill in the damaged area to bring the surface flush. Once dry, trim any excess spray foam
 - Mix and apply a base coat of the NUBASE material to the damaged area, extending past the damaged area slightly onto the remaining wall surface
 - Cut a piece of fiberglass mesh slightly larger than the repair area and embed in the base coat. The mesh extending outside of the affected area will help to adhere the patch and help to blend the repair with the remaining wall surface
- After the base coat is fully cured, apply the finish coat
- 11.2 Horizon
- Begin the by removing any loose Horizon material or any other debris from the damaged area
 - If the foam surface below the Horizon coating is severely damaged, use Nudura Low Expansion Foam to fill in the damaged area to bring the surface flush. Once dry, trim any excess spray foam
 - Applying new Horizon material over the damaged area using a brush or roller. A two coat application might be required depending on the extent of the damage
 - An area around the damaged area might need to be coated to help blend the damaged area with the rest of the wall surface

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