MaxCoat Coatings

Ceramic Fiber Reinforced Coating

NUTEC

Installation Recommendations

General Product Information	MaxCoat 150	MaxCoat 180
Maximum Use Temperature	2300°F (1260°C)	2300°F (1260°C)
Overhead Installation Thickness	⅛" Nominal, ¼" Maximum	1/32" Nominal, ⅛" Maximum
Vertical Installation Thickness	⅛" Nominal, ¼" Maximum	1/16" Nominal, ⅛" Maximum
Coverage (sf/gal)	25	75
Shelf Life	12 Months	12 Months
Dry Out Cycle	None Required	None Required

Installation Procedures over Modules – New Construction

1. **MaxCoat Coating** may be installed by either manually troweling or by spraying/gunning, utilizing commercially available equipment. These installation recommendations apply for either method of application.

2. Modules are to be installed as per standard procedures, with all banding and cardboard removed and the lining thoroughly tamped to fully expand the module folds.

3. To provide additional surface area for the **MaxCoat Coating** to adhere to, it is recommended that the hot face of the module lining is perforated prior to application of the **MaxCoat Coating**. A perforating board can be constructed using a wooden board with a handle that has archery arrow tips mounted on the board. The typical board size is ¾" thick x 12" x 12" and the arrow tips are installed on 1.5" staggered centers.

   Figure 1 which represents the recommended pattern along with *Figure 2*, a picture of a typical arrow tip. Arrow tips are commercially available at outdoor sportsman stores or through common websites such as Amazon. Nuts and washers will also be necessary to secure the arrow tips to the board. Drill hole, nut, and washer sizes to be determined based upon the respective size and style of the archery tips utilized.

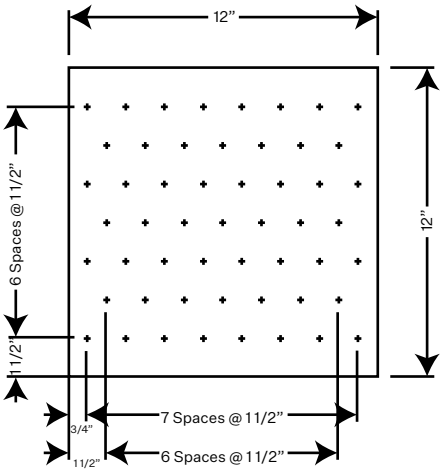

Figure 1

Installation Procedures over Modules – New Construction (Continued)

Step by step details for constructing the perforating board and perforating the lining are as follows:

A) Constructing the Perforating Board:

- Use a wooden board with a handle.
- Mount archery arrow tips on the board.
- The typical board size is ¾" thick x 12" x 12" and the arrow tips are installed on 1.5" staggered centers.
- Nuts and washers will also be necessary to secure the arrow tips to the board.
- Drill hole, nut, and washer sizes should be determined based upon the respective size and style of the archery tips utilized.

Fig 2. Typical Archery Arrow Tip

B) Using the Perforating Board:

- Once constructed, use the perforating board to create perforations on the entire hot face of the module lining. Push the arrow tips to their full depth into the fiber lining.
- This step is crucial to improve the adhesion of **MaxCoat Coating**.

4. At this point, the **MaxCoat Coating**. Use a mortar whip to thoroughly mix the material until it is homogeneous and creamy in consistency. Small amounts of water can be added as necessary to improve workability, but to the extent possible water additions should be minimized.

5. To further promote adhesion, just prior to applying the **MaxCoat Coating**, very lightly mist the module hot face surface with water. This will tie up any lose surface fibers and serve to densify the module hot face to better accept the coating material. Only mist the immediate area of work, repeating this procedure as the install proceeds.

6. Install the **MaxCoat Coating** by either troweling or gunning methods. As the material is applied, work it into the perforations on the module hot face. Stay within the stated recommended maximum thicknesses for both overhead and vertical surfaces.

7. Once the **MaxCoat Coating** has been installed, do not disturb the lining. No dry out is required, and the furnace can begin operation per the operator's standard procedures.

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