

BRB Products Flex Clad 400

BRB Products Flex Clad 400 Waterproofing Protective Sheet User Manual

Model: Flex Clad 400

1. INTRODUCTION

The BRB Products Flex Clad 400 is a 45 mil, pre-fabricated, self-adhering protective membrane designed for waterproofing and protecting various surfaces. It features an embossed, UV-resistant aluminum weathering surface over multiple layers of tough, high-density cross-linked polymer film. Beneath these layers is a uniform layer of aggressive rubberized asphalt adhesive, protected by a disposable release liner.

This product is specifically engineered to protect ductwork and sub-grade applications. It can be applied over rigid board insulation, cold pipes, plenums, storage tanks, iron, copper, steel, PVC, CPVC, and concrete. Flex Clad 400 effectively weatherproofs, resists water leaks and vapor transmission, preserves thermal insulation efficiency, and reflects sunlight to reduce interior temperatures. It is suitable for exterior, interior, or direct burial applications.

Key Features:

- **Self-Adhering:** Ensures fast and easy installation.
- **UV Stable:** Can be exposed to elements indefinitely without degradation.
- **Flame/Smoke Rating:** Exceeds 25/50 Flame/Smoke rating per ASTM E84.
- **Conformable:** Adapts to odd shapes and hard-to-waterproof areas, self-sealing around fasteners.
- **Energy Efficient:** Reduces energy costs and internal temperatures by reflecting sunlight.

2. SAFETY INFORMATION

Always prioritize safety during installation. Read and understand all instructions before beginning work. Failure to follow safety guidelines may result in injury or damage to property.

- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including gloves and eye protection, to prevent skin contact with adhesives and protect against debris.
- **Ventilation:** Ensure adequate ventilation in the work area, especially in enclosed spaces.
- **Sharp Tools:** Use cutting tools carefully. Keep hands clear of blades.
- **Surface Preparation:** Ensure surfaces are clean, dry, and free of loose debris to prevent slips or falls during application.
- **Storage:** Store the product in a cool, dry place, away from direct sunlight and extreme temperatures. Keep out of reach of children and pets.

3. PRODUCT OVERVIEW

The Flex Clad 400 is a multi-layered protective sheet designed for robust waterproofing and insulation. Its construction ensures durability and performance in various environments.



Image 1: Flex Clad 400 Waterproofing Protective Sheet (White variant). This image displays the rolled sheet, highlighting its white, UV-resistant aluminum surface.

Components:

- **Outer Layer:** Embossed, UV-resistant aluminum weathering surface.
- **Middle Layers:** Multiple layers of tough, high-density cross-linked polymer film.
- **Adhesive Layer:** Uniform layer of aggressive rubberized asphalt adhesive.
- **Release Liner:** Disposable protective film covering the adhesive surface.

4. INSTALLATION INSTRUCTIONS

Proper installation is critical for the performance and longevity of the Flex Clad 400. Follow these steps carefully.

1. Surface Preparation:

- Ensure the application surface (e.g., metal, insulation facers, rigid board insulation, pipes, concrete) is

clean, dry, and free of dust, grease, oil, loose paint, or other contaminants.

- Repair any cracks, holes, or uneven areas on the surface before application.
- For optimal adhesion, especially on porous or dusty surfaces, a compatible primer may be recommended (consult manufacturer guidelines if unsure).

2. Measurement and Cutting:

- Measure the area to be covered accurately.
- Cut the Flex Clad 400 sheet to the required length using a sharp utility knife and a straight edge. Ensure clean, straight cuts.
- Allow for appropriate overlap (typically 2-3 inches) if multiple sheets are required for wider areas or complex shapes.

3. Application:

- Peel back a small section of the release liner from one end of the sheet.
- Carefully align the exposed adhesive portion of the sheet with the starting point of your application area.
- Press the adhesive firmly onto the surface, working from the center outwards to avoid trapping air bubbles.
- Gradually peel away the remaining release liner while continuously pressing the sheet onto the surface. Use a roller or squeegee to ensure full contact and remove any air pockets.
- For pipes or cylindrical objects, wrap the sheet tightly, ensuring a slight overlap for a secure seal.
- The material is conformable; gently press and mold it around odd shapes and fasteners. It is designed to self-seal around fasteners.

4. Sealing Overlaps:

- When applying multiple sheets, ensure a minimum 2-inch overlap.
- Press overlaps firmly to create a continuous, watertight seal.

5. Final Inspection:

- Inspect the entire applied surface for any loose edges, bubbles, or areas of poor adhesion.
- Re-roll or press down any problematic areas to ensure a complete seal.

5. OPERATING INSTRUCTIONS

Once properly installed, the Flex Clad 400 operates passively as a protective and insulating barrier. No active operation is required.

- The sheet continuously provides waterproofing against moisture and vapor transmission.
- Its UV-resistant surface reflects sunlight, contributing to reduced interior temperatures and preserving the efficiency of underlying thermal insulation.
- The self-sealing properties around fasteners maintain integrity even after penetrations.

6. MAINTENANCE

The Flex Clad 400 is designed for long-term durability with minimal maintenance. However, periodic inspection can help ensure its continued performance.

- **Periodic Inspection:** Annually inspect the applied surface for any signs of damage, lifting, or wear, especially in areas exposed to harsh weather or physical impact.
- **Cleaning:** If the surface becomes dirty, clean it with a mild detergent and water. Avoid abrasive cleaners or harsh chemicals that could damage the aluminum surface. Rinse thoroughly with clean water.
- **Repairs:** For minor damage (e.g., small tears or punctures), clean the affected area and apply a patch of Flex Clad 400 with adequate overlap, ensuring firm adhesion.

7. TROUBLESHOOTING

This section addresses common issues that may arise during or after installation.

Issue	Possible Cause	Solution
Poor Adhesion	Surface was not clean, dry, or properly prepared; application temperature too low.	Ensure surface is thoroughly cleaned and dry. Apply in recommended temperature ranges. Re-press firmly with a roller. For persistent issues, remove and reapply after proper surface preparation.
Air Bubbles	Sheet applied too quickly or not pressed firmly enough during installation.	Carefully puncture the bubble with a sharp pin or knife, then press out the air and firmly re-adhere the sheet. Prevent by applying slowly and using a roller.
Lifting Edges/Corners	Insufficient pressure during application; edge not fully sealed.	Re-press the edges firmly. If necessary, apply a small amount of compatible adhesive sealant under the lifted edge and press down. Ensure adequate overlap on seams.
Water Leakage	Improperly sealed seams or punctures; inadequate surface preparation.	Locate the source of the leak. Clean and dry the area. Apply a patch of Flex Clad 400 with sufficient overlap, ensuring all edges are firmly sealed. Inspect entire installation for other potential weak points.

8. SPECIFICATIONS

Product Name	Flex Clad 400 Pipe and Duct Waterproofing Self-Stick Protective Sheet
Brand	BRB Products
Material	Rubber (adhesive), Aluminum (surface), Polymer film (core)
Item Thickness	0.05 Inches (45 mil)
Roll Dimensions	36 inches (width) x 33.5 feet (length)
Coverage	100.5 sq ft
Recommended Uses	Waterproofing, protecting, and insulating piping systems, pipelines, ductwork, and other below-grade structures.

Flame/Smoke Rating	Exceeds 25/50 per ASTM E84
UV Stability	UV Stable, may be left exposed indefinitely.
Manufacturer	FlexClad
UPC	685757189835
ASIN	B08KGTPT7G

9. WARRANTY AND SUPPORT

Specific warranty information for the Flex Clad 400 is not provided in the product details. For warranty claims or detailed support, please contact BRB Products directly through their official website or customer service channels.

Always retain your proof of purchase for any warranty or support inquiries.