NeoClad™ Pro 62-20

Product Data Sheet

PROPERTIES

FINISH:
62-20S: Smooth, Aluminum
62-20SW: Smooth, White
62-20E: Embossed, Aluminum

COMPOSITION:
Five-ply aluminum/polymer laminate with pressure sensitive butyl adhesive and release liner

SERVICE TEMPERATURE:
Temperature at jacketing surface.
-67°F to 284°F (-55°C to 140°C)

STANDARD ROLL SIZE:
35.5-in. width x 50-ft. length

TOTAL FILM THICKNESS (TYPICAL):
28 mils (0.70 mm) +/- 10% (with adhesive, no release liner)

TENSILE AND ELONGATION (ASTM D1000):
Tensile Strength: 70 lbs/inch (12.5 N/mm)
Elongation: 45%

WATER VAPOR PERMEANCE:
ASTM F1249: 0.00 perms tested at 75ºF (25ºC) and 50% RH
ASTM E96, Procedure B: 0.00 perms

PUNCTURE RESISTANCE (ASTM D1000):
36 lb_f (160 N) mean

PEEL ADHESION (ASTM D3330):
238 oz/in width (2.6 N/mm) – Typical at 73°F (23°C)

TEAR STRENGTH (ASTM D624):
6.0 lb_f (27 N) Type C

EMITTANCE (ASTM C1371):
Aluminum: 0.05
White: 0.44

SOLAR REFLECTANCE (ASTM C1549):
Aluminum: 0.89
White: 0.68

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VAPOR BARRIER INSULATION JACKETING

FOSTER® NEOCLAD™ PRO 62-20 is a premium, vapor barrier jacketing material engineered for demanding commercial and light industrial insulation applications where long-term adhesion and vapor seal integrity are critical. It is comprised of a durable five-ply aluminum and polymer laminated film with an advanced butyl pressure sensitive adhesive and release liner. It has extremely low permeance and excellent resistance to puncture and tearing. It provides superior protection to insulation from weather, moisture ingress and physical abuse while helping maintain long-term system performance.

NEOCLAD™ PRO 62-20 can be used over most types of thermal insulation including cellular glass, polyurethane, polyisocyanurate, polystyrene and faced rigid fibrous insulations. It resists mold and mildew growth on its surface and has excellent weathering properties, making it ideal for both indoor and outdoor applications. Its advanced butyl adhesive technology provides exceptional initial tack and long-term bond strength, even in cold-weather conditions and on challenging substrates, helping reduce the risk of seam failure and moisture intrusion.

NEOCLAD™ PRO 62-20 provides a fast, labor-saving alternative to traditional metal cladding on commercial/light industrial insulation systems. It can be easily applied in the field or in the shop with no special tools required. Designed to accommodate thermal cycling, vibration and system movement, NeoClad™ Pro helps maintain a continuous vapor barrier in demanding environments, making it ideal for chilled water, refrigeration, below-ambient piping and other critical moisture-control applications.

NEOCLAD™ PRO 62-20 meets or exceeds the performance properties identified in ASTM C1775 Table 1 for outdoor laminate insulation jacketing.

LIMITATIONS
Apply between 0°F (-18°C) and 125°F (52°C) and store between 41°F – 90°F (5°C – 32°C).

Do not apply to damp, frosty or contaminated surfaces.

Not for use below grade in direct contact with the earth.

NeoClad™ Pro 62-20 is not to be used for banding or mechanical fastening. Standard fastening of insulation is required. HVAC ductwork must be sealed and tested for air leakage prior to applying insulation and NeoClad™ Pro 62-20 jacketing.

All insulation seams and joints must be sealed and/or taped prior to the installation of NeoClad™ Pro 62-20 jacketing.

See application guide for tips and suggestions for use over elastomeric foam insulation.

For application by skilled professionals only.

H.B. Fuller Construction Products Inc.

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APPLICATION GUIDE
FOR
FOSTER® NEOCLAD™ PRO JACKETING
62-20

PREPARATION
Apply only to clean, dry, oil-free surfaces. Dirt, dust and loose insulation must be removed prior to application. Insulation surface should be as smooth as possible to provide a neat, even, finished appearance.

All underlying insulation seams and longitudinal and butt joints must be taped with a compatible tape recommended by the insulation manufacturer. Ensure any HVAC ductwork is fully sealed against air leaks.

APPLICATION
Foster® 62-20 NeoClad™ Pro jacketing is best applied by cigarette wrapping on piping. Cut membrane to desired length. Ensure length includes a minimum 3" (75 mm) overlap. For best finished appearance, keep the machine direction of all pieces of NeoClad™ Pro aligned in the same direction. Start by positioning the membrane such that the finished overlap will allow for water to drain over and not into the lap. Peel back six to twelve inches of the release liner, taking care not to allow any exposed adhesive to touch itself. Firmly press exposed edge of sheet in place and continue removing release liner and smoothing sheet to substrate. Avoid wrinkling.

All longitudinal and circumferential seams must be overlapped a minimum of 3" (75 mm). Ensure complete contact at the laps and to the substrate using a tape squeegee or roller, applying firm pressure throughout.

NeoClad™ Pro is formulated to maintain overlap adhesion even over elastomeric foam insulation. However, in extreme climates, additional mechanical support may be required due to the expansion and contraction of the insulation. See application guide for tips regarding elastomeric foam insulation in extreme climates.

For rectangular duct work, the top shall be sloped to avoid ponding water and ensure run-off. Pieces of jacketing should be cut and applied to ensure complete water drainage over and not into the laps. The bottom piece should be cut and applied first such that it extends a minimum of 3" (75 mm) up the side of the duct. Side pieces should be cut next to cover the entire side of the duct from top to bottom. Finally, a top piece should be cut and applied covering the entire top surface and extending a minimum 3" (75 mm) down the sides. Alternatively, for smaller duct, one or two pieces of jacketing may be used, ensuring that all final laps are overlapped a minimum of 3" (75 mm) and drain over the top.

For elbows, bends, tees and reducers, follow procedures used for fitting metal jacketing by cutting gores, legs, sine waves and C-collars from the roll of NeoClad™ Pro jacketing to fit the insulation radius and diameter. All fittings should be cut to allow for 2" (50 mm) overlaps. Cut feathers or slits into underlaps or overlaps to avoid wrinkles when changing dimensions of fittings require it. Be certain that butting overlap covers any slit so that water cannot penetrate and use tape strips as necessary to ensure vapor tight seal. Where 2" (50 mm) overlaps are not possible, butt the two fitted pieces up as tightly as possible, avoiding wrinkling of the sheet. Then use 3.9" (99 mm) strips of NeoClad™ Pro jacketing to seal all joints a minimum of 1.9" (48 mm) overlap on both sides. Use care to ensure all fittings are completely vapor sealed.

All penetrations, insulation supports, valves, expansion and contraction joints and other protrusions must be properly flashed to ensure complete seal between the protrusion and the jacketing. Foster® 95-44 Elastolar® Sealant may be flashed directly over the jacketing.

On low temperature applications, ensure the insulation and jacketing are free from frost or condensation. Apply the jacketing as normal, ensuring good adhesion at all overlaps. At temperatures below 0°F (-18°C), a heat gun and squeegee or roller are suggested to warm the sheet and obtain optimal adhesion at the overlaps.

Repair damaged jacketing by cutting out the damaged section and patching it with new jacketing over the empty section, overlapping the existing sheet by a minimum of 3" (75 mm) all the way around the repaired area.

To improve adhesion to dusty insulations, such as PIR, the insulation may be primed with Foster® 85-45 Fos-Stik™ Aerosol Adhesive.

Note: When applying NeoClad™ Pro jacketing over PIR pipe insulation greater than 4" (100 mm) pipe diameter, follow insulation manufacturers' recommendations for additional mechanical fastening.

CUSTOMER SERVICE: (833) 849-3700

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