Abatement Products

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Serpiflex[®] Shield

Asbestos Encapsulation Products

Benefits

- A concentrate that can be used for all types of asbestos abatement, including removal
- One product does all six types of abatement
- Because it is concentrated it saves valuable warehouse space
- Saves transportation cost
- Saves labor
- Saves up to 80% of the cost of removal of asbestos
- Has been tested and found to be effective for at least 20 years
- Maintains the fire protective properties of the asbestos substrate and has only negligible effects on its acoustic properties
- Has been exhaustively tested in accordance with the U.S. Environmental Protection Agency (EPA) requirement by Battelle Institute, U.S. Testing Company and UL

Product Description Serpiflex® Shield Asbestos Encapsulant is a concentrated water-based vinyl acrylic product with various flame-retardant chemicals and fillers. It is nontoxic, non-combustible and does not contain any solvents or silicates. Available in clear, white and colors.

Recommended Uses

- Spray-Applied Fire Resistive Material or Acoustical Insulation
- Pipe covering, boilers, ducts and breeching repairs
- Fiber-free removal
- Lock-down (post removal)
- Crawl spaces and other contaminated soil areas

Availability Serpiflex Shield is available through authorized RectorSeal distributors.

Warranty

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable. However, since the conditions of use and application are beyond our control, RectorSeal shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. RectorSeal only warranty shall be to replace any of its products found to be defective.

Technical Support RectorSeal provides technical support for all of its products, including Serpiflex Shield. Call toll free at 800-231-3345 for assistance in product selections. We provide engineering analysis for unique asbestos abatement applications. Material Safety Data Sheets are also available. More information is available at our web site, http:flamesafe.rectorseal.com.

FORMULA #1 – Penetrating Formula Mix*

For friable, porous, sprayed on fireproofing or acoustical insulation

45% Serpiflex to 55% water (potable)
[5 gal (19 L) Serpiflex : 6 gal (22.8 L) water]

Application

- Use airless spray equipment Binks, Graco, Wagner or equal
- ³/₈-¹/₂ in. (9.5-12.7 mm) hose with .022 in. (559 micron) tip, 12 in. (30 cm) fan
- Apply multiple coats in one application
- Keep spray gun moving, apply until surface glistens or material appears on surface
- Rate of 30 ft²/gal (0.74 m²/L) per ³/₄ in. (19 mm) of penetration (average)
- First coat uses 60-70% of formula, let set 4 hours
- · Apply second coat with balance, or
- Apply second coat with Formula #2 for finish coat

FORMULA #3 – Full Strength Mix*

For pipe covering, boilers, ducts and breeching repairs

• Brush, Roller or Spray

Application

- Spray, brush or roller over entire surface, using 2 or 3 coats as needed*
- Use fiberglass or cloth scrim fabric on damaged areas sprayed or brushed on with Serpiflex
- Mix a suitable insulating material with Serpiflex or water to fill depressions and voids
- For "Palm Grade," use Serpimastic Trowelable
- Rate varies 100-200 ft/gal (2.4-4.8 m²/L) per coat – multiple thin coats work best

FORMULA #5 – Lock-Down Formula Mix*

For post-removal

45% Serpiflex to 55% water (potable)
[5 gal (19 L) Serpiflex : 6 gal (22.8 L) water]

Application

- Use airless spray equipment Binks, Graco, Wagner or equal
- ³/₈-¹/₂ in. (9.5-12.7 mm) hose with .017 in. (432 micron) tip, 12 in. (30 cm) fan
- Post Removal Assurance Rate 400-500 ft²/gal (9.6-12 m²/L) after mixing
- One coat as needed
- Also used on plastic barriers before final tear-down

FORMULA #2 – Bridging Formula Mix*

For cementitious sprayed on fireproofing or acoustical insulation

• 5 gal (19 L) Serpiflex to 1 gal (3.8 L) water

Application

- Use airless spray equipment (as in Formula #1) with .017 in. (432 micron) tip to avoid splash-back
- Rate of 50-100 ft²/gal (1.2-2.4 m²/L)
- Use brush for touch up if needed after drying
- Use 60-70% for first coat
- Use 30-40% for second coat
- Application rate varies according to density
- If matrix indents easily with finger pressure, use Formula #1 for first coat

FORMULA #4 – Removal Formula Mix*

For fiber-free removal

• 1 gal (3.8 L) Serpiflex to 5 gal (19 L) water

Application

- Removal: apply as needed for removal approximately 50 ft²/gal/in. (0.5 m²/L/cm) penetration
- Use .022 in. (559 micron) tip or larger
- Spray multiple coats in one application allow for Serpiflex to absorb to substrate before removing

FORMULA #6 – Ground Sealer Formula Mix*

For crawl spaces and other contaminated soil areas

45% Serpiflex to 55% water (potable)
[5 gal (19 L) Serpiflex : 6 gal (22.8 L) water]

Application

- Use airless spray equipment Binks, Graco, Wagner or equal
- ³/₈-¹/₂ in. (9.5-12.7 mm) hose with .022 in. (559 micron) tip, 12 in. (30 cm) fan
- Apply multiple coats in one application
- Keep spray gun moving, apply until surface glistens or material appears on surface or as needed
- Rate of 30 ft²/gal/in. (0.03 m²/L/cm) of penetration is average
- Will not penetrate wet or clay earth
- Rate of penetration will vary according to different soil conditions

Technical Data

Description	A ready-mixed coating material of vinyl-acrylics and water-based resins, various flame retardant chemicals and fillers	
Color	Matte-white	
Finish	Semi-gloss	
Surface Dust	None	
Density	1.20	
Viscosity	80-85 krebs units or stormer viscometer	
Percent of Solids	Full strength – 40% Penetration mix – 21%	
Adhesion/Cohesion	Passes Battelle test	
Penetration	Battelle test result: .66 to 1 in. per 38 ft²/gal (1.6-2.5 cm per 0.912 m²/L), cured shield (deeper penetration at lower coverage rate)	
Water/Moisture Resistance	Excellent	
Odor	Odorless when dry, negligible when wet	
Gardner Impact Test	Exceeds EPA req., 400% increased	
Flame Spread (ASTM E84)	0	
Smoke Development (ASTM E84)	5	
Encapsulation Certification	ASTM P189 Specification for Encapsulant for Friable Asbestos-containing Building Materials	
Toxic Gas Release	Battelle: "well below danger level" Tested in accordance with the National Academy of Sciences	
Shelf Life	One year in closed original containers at room temperature	
Storage	40°F to 90°F (5°C to 30°C), protect from freezing	
Temperature Range	Up to 1800°F (982°C) on exposed pipes	
Vapor Permeability	ASTM E96 0.50	

Product Availability Serpiflex Shield is available through authorized RectorSeal Product distributors in the following quantities:

Description	Part No.	Volume
Poly Pail 5 gal (19.0 L)	50161	1,155 in. ³ (18,927 cm ³)
Poly Drum 55 gal (208 L)	50162	12,705 in. ³ (208,198 cm ³)



For Technical Assistance call toll free at 800-231-3345.



Visit our web site at http://flamesafe.rectorseal.com

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