TECHNICAL LETTER—CHEMICAL COMPATIBILITY

Chemical Compatibility with Other Building Materials and Sealants with Protecto Wrap's Self-Adhered Membranes, Building Tapes, Energy Saving Products, Liquid Membranes and Pipeline Products.

Protecto Wrap Company offers different self-adhered products and liquid-applied membranes for a variety of needs.

Protecto Wrap self-adhered products utilize a high-density polyethylene and woven polypropylene facing material, synthetic fabric reinforcement, an aluminum reinforced polymer facing material, a foam surface or a wicking surface. Almost always, there is no chemical compatibility issue if a material contacts any of these surfaces.

Protecto Wrap Company manufactures products with a variety of adhesives. The adhesive side of our products can come into contact with several different materials on the same jobsite. The chemical compatibility of dissimilar materials can cause reactions that affect the performance of the self-adhered membranes and/or the degradation of the materials they contact.

The following guidelines are to help with the selection of materials that can be used and to identify products that should not be used.

Building Materials

Protecto Wrap self-adhered products are often applied directly to and are compatible with plywood, fire-treated plywood, oriented strand board (OSB), weather barrier coated OSB, exterior gypsum board, glass mat surfaced gypsum board (Densdeck™/DensGlass Gold®), concrete, fiber cement, extruded and polystyrene, rigid poly iso, ICF, dimensional lumber, chromated copper arsenate (CCA), alkaline copper quaternary (ACQ), ammoniacal copper zinc arsenate (ACZA), pressure-treated woods and pressure-treated plywoods**.**

Protecto Wrap Company recommends on-site testing for adhesion prior to final application of self-adhered membranes with test patches or mock ups. If adhesion to the tested substrate is marginal, a primer should be used to achieve adequate adhesion. Please reference our **Library & Resources – Primer Recommendations** to help in selection of a primer suitable for the application.

Windows & Doors

Protecto Wrap Company flashing products generally come in contact with the nailing flange or frame components of windows and doors. In general, our flashing products are compatible with most vinyl, metal and wood window and door components; however, some manufacturers of arched or round shaped windows use plasticized flexible PVC in the formulation of the nail flange material that can have a reaction when in contact with Rubberized Asphalt adhesives. Some nailing flanges may appear to be flexible due to their thin gauge but are in fact rigid PVC. These thinner nailing flanges are not generally plasticized PVC and are therefore compatible with all Protecto Wrap adhesives. Please consult your window or door manufacturer for information regarding the composition of their nailing flange components if there is any concern of plasticized flexible PVC.

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Weather Resistive Barriers

Protecto Wrap self-adhered flashing products are compatible with the following weather resistive barriers:

- Perforated woven Polyolefin
- Non-Perforated Polymer based
- Polyurethane Coatings
- Spun-Bonded Polyethylene
- Spun-Bonded Polypropylene
- High Density Polyethylene Sheet/Visqueen
- Red Rosin Paper
- Asphaltic Dampproofing
- Asphalt Saturated Felt
- OSB and glass faced gypsum panels with integrated WRB coatings (including Zip and DensElement)
- Protecto Wrap Fluid Applied Air Barrier System (LWM200)

Metals

Protecto Wrap products are compatible with most metals; however, some metal surfaces may have a protective coating that will not allow optimum adhesion.

- Metal surfaces may need to be solvent wiped, abraded, and primed to achieve optimum adhesion.
- Proper safety measures must be followed when using solvents to clean metal.

Sealant and Caulking Materials

Most sealants are chemically compatible with Protecto Wrap self-adhered products provided that the sealant is applied to the facer film component of the flashings. Adhesion to the facer film may vary.

Protecto Wrap recommends performing a small field test patch or mock up to determine compatibility and adhesion since sealant manufacturer's formulations vary. Always follow sealant manufacturers' recommendations for compatibility, application and use of their products. Testing sealants and adhesive layers as per the AAMA 713-24 test protocol is also recommended.

The following sealants in general and when fully cured are chemically compatible with the adhesive side of all Protecto Wrap self-adhered products if the specific formulation does not contain hydrocarbon solvents:

- Acetoxy and Neutral Cure Silicones
- Acrylic
- Butyl
- STPE
- 1-Part Polyurethane
- 2-Part Polyurethane Remove or strike down any excess sealant prior to installing self-adhered products.

Protecto Wrap Liquid Membranes

Protecto Wrap latex based membranes, CMU100 and LWM200, are compatible with most substrates. See substrate list above in the Building Materials section.

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Material Compatibilities

	Protecto Wrap Rubberized Asphalt Adhesive	Protecto Wrap Super Stick Adhesive	Protecto Wrap Butyl Rubber Adhesive
Vinyl	Yes	Yes	Yes
Rigid PVC	Yes	Yes	Yes
Plasticized Flexible PVC	No	No	Yes
TPO	No	Yes	Yes
EPDM	No	Yes	Yes
MMA	Yes	Yes	Yes
PMMA	Yes	Yes	Yes
HDPE	Yes	Yes	Yes
Cross Laminated HDPE	Yes	Yes	Yes
Woven HDPE	Yes	Yes	Yes
Polypropylene	Yes	Yes	Yes
Woven Polypropylene	Yes	Yes	Yes
Chlorinated Polyethylene, CPE	Yes	Yes	Yes
Creosote	No	No	No
Pentachlorophenal	No	No	No
Linseed Oil	No	No	No
Hydrocarbon Solvents	No	No	No
Diesel Fuel	No	No	No
Uncured Neoprene	No	No	No
Cured Neoprene	Yes	Yes	Yes
Gasoline/Oil	No	No	No
Resin or pitch from soft woods e.g. spruce, cedar	No	Yes	Yes
Coal Tar	No	No	No
Fully Cured Coal Tar	Yes	Yes	Yes
Asphaltic Dampproofing	Yes	Yes	Yes
Marine Grade Plywood	No	Yes	Yes
Polysulfides	No	No	No
Polyurethane Based Fluid Applied Waterproofing	Yes	Yes	Yes
Huber AdvanTech Subflooring, exterior applications only, all okay interior	No	Yes	Yes

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The following is a list of Protecto Wrap products and their adhesives:

Membrane & Tape Adhesives					
Category	Product Name	SBS Modified Asphalt	Butyl	Block Copolymer	Water Based
Building & Flashing Tapes	BT20XL		✓		
	BT25XL	✓			
	Form Flash 1	✓			
	Form Flash 2 EPDM		✓		
	Primer Free Stucco Tape			✓	
	Proteco Flex	✓			
	PS 45 Aluminum	✓	✓		
	PSDS Detail Tape	✓			
	Sill Pan Flash	✓	✓		
	Stucco Tape	✓			
	Super Stick			✓	
	Super Stick Deck Joist Tape			✓	
Energy Products	Dual Guard	✓			
	Energy Plate Liner	✓			
	Premium Energy Sill Sealer	✓			
	Triple Guard Energy & Insect Sill Sealer	✓		✓	
Roofing Underlayments	Form Flash 2 EPDM		✓		
	Ice & Water Guard	✓			
	Jiffy Seal Ice & Water Guard HT	✓			
	Jiffy Seal Ice & Water Guard HT 25	✓			
	Jiffy Seal Ice & Water Guard Butyl HT		✓		
	Jiffy Seal Ice & Water Guard Extreme			✓	
	Rainproof 40 & 60	✓			
	Roof Deck Seam Tape	✓			
	Roof Deck Seam Tape- Extreme			✓	
	Roof Edge Seal	✓			
	Tile Flash 30XL & 60XL	✓			
Air & Vapor Barier & Thru Wall Flashing	PW 100/40	✓			
	Universal Primer Free Membrane			✓	
Waterproofing- Membrane	Jiffy Seal 140/60	✓			
	PW 100/60	✓			
	JS 500 Detail Tape	✓			
	Protecto Deck	✓			
	Universal Primer Free Membrane			✓	
Waterproofing- Liquid	CMU100 & LWM200				✓
Other	SafSeal 6626/60 Foil Tape		✓		
	SafeSeal 6610 SeamSeal Tape		✓		
	Saf Seal 6634 A&VB; TWF		✓		
	Bridge Deck M400A & M400A(R)	✓			
Flooring Underlayments	AFM and AFM-WM	✓			
	Protecto Deck	✓			
	Whisper Mat CS	✓			
	Whisper Mat HW	✓			
	Whisper Mat LVT	✓			
Pipeline Products	Pipe Tape-200-35	✓			
	Pipe Tape-320-35 Butyl		✓		
	Pipe Tape-350-35 Butyl		✓		
	Pipe Tape-360-35 Butyl		✓		
	GT-50 Pipe Wrap	✓			
	Insul-Seal Pipeline			✓	
	Protecto Seal 50	✓			
	Protecto Seal 50 Butyl		✓		

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Additional Information

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