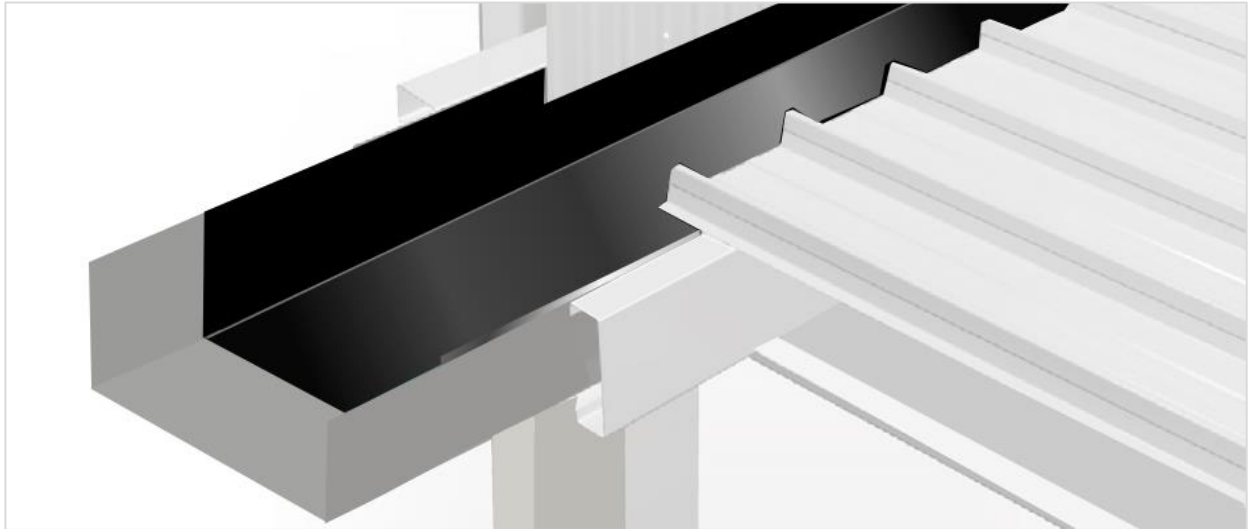


EFFISUS ALLTITEGUTTER - WATERPROOFING LINER FOR GUTTER REPAIRS

An innovative gutter waterproofing liner for gutter repairs based on a self-adhesive EPDM membrane, scrim-reinforced, strong and dimensionally stable.



SYSTEM COMPONENTS:

- | | | |
|----|---|---------|
| 1. | Effisus ALLTITEGUTTER Membrane
Waterproofing self-adhesive, scrim-reinforced, EPDM membrane | Page 2 |
| 2. | Effisus ALLTITEGUTTER Outlet
EPDM outlets for connection of the Effisus ALLTITEGUTTER Membrane with water outlets | Page 4 |
| 3. | Effisus Bond FT Tape
Uncured EPDM membrane laminated to an adhesive pressure sensitive tape for sealing of overlapping joints between the Effisus ALLTITEGUTTER Membrane | Page 5 |
| 4. | Effisus Coat SP Primer
Primer for pre-treatment of the Effisus ALLTITEGUTTER Membrane or other surfaces before adhering the Effisus Bond FT Tape | Page 8 |
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| 6. | Effisus Coat UP Primer (Solvent Free)
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Adhesive / sealant for sealing edges of the Effisus Bond FT tape | Page 15 |

EFFISUS ALLTITEGUTTER MEMBRANE



DESCRIPTION

The Effisus ALLTITEGUTTER Membrane is a two-ply EPDM membrane, scrim-reinforced with glassfiber. The product is laminated with a self-adhesive backing, covered by a protective foil. The range of use is as waterproofing membrane for gutter waterproofing.

EN-13976 - Flexible sheets for waterproofing – Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet.

TECHNICAL DATA

Characteristic	Value	Expr. of result
Reaction to fire, EN 13501-1	Class E	Classification
Watertightness, EN 1928 B	Pass 24h/60 KPa	Pass/Fail
Tear resistance, EN 13859-1/B	Cross direction 220N Length direction 238N	≥ MLV
Shear strength of joint, EN 12317-2	550 N/50mm	≥ MLV
Peel strength of joint, EN 12317-2	198 N/50mm	≥ MLV
Impact resistance, EN 12691 A/B	250mm (A), 1000mm (B)	≥ MLV
Tensile strength, length direction, EN 13859-1/A	720 N	≥ MLV
Tensile strength, cross direction, EN 13859-1/A	697 N	≥ MLV
Resistance to static loading, EN 12730 (Method B, 24h/20kg)	≥ 20 kg	≥ MLV
Durability water tightness after artificial ageing, EN 1296 (12 weeks); EN 1928 (24h/60kPa)	Pass (12 weeks; 24h/60kPa)	Pass/Fail
Durability water tightness against chemicals, EN 1847 (28d/23°C); EN 1928B (24h/60kPa)	Pass (28d/23°C; 24h/60kPa)	Pass/Fail
Dangerous substances	No dangerous substances	MDV
Weight (1.6mm)	1.9kg/m ²	-
DS-value	98m	-

MDV = Manufacturer's Declared Value; MLV = Manufacturer's Limiting Value

OTHERS

Storage

Store vertically, cool and dry in the original packaging. Maximum shelf life is 12 months in unopened packaging.

Dimensions / Packaging

Roll length: 20m

Roll width: 600, 1000, 1600mm

Thickness: 1.6mm

Colour: Black

Packaging: 15rolls/pallet

Storage

The membrane and the packaging are properly identified.

Protect from mechanical aggressions. Store away from combustion sources and open flames.

EFFISUS ALLTITEGUTTER CONNECT OUTLET

DESCRIPTION

The Effisus ALLTITEGUTTER Connect Outlet is designed to connect Effisus ALLTITEGUTTER Membranes with rain water drains. Made of polyethylene.



TECHNICAL DATA

Designation	Diameter (mm)	Length (mm)	Flange (mm)
Effisus ALLTITEGUTTER Connect Outlet 75	75	380	300 x 300
Effisus ALLTITEGUTTER Connect Outlet 90	90	380	300 x 300
Effisus ALLTITEGUTTER Connect Outlet 110	110	380	300 x 300
Effisus ALLTITEGUTTER Connect Outlet 125	125	380	300 x 300

OTHERS

Storage

Store vertically, cool and dry in the original packaging.

EFFISUS BOND FT TAPE

DESCRIPTION

Effisus Bond FT Tape consist of an uncured EPDM membrane that has been laminated to a 25 mil EPDM based pressure sensitive tape adhesive. The flashing tape is extremely flexible and can be formed to fit irregular shapes and surfaces.

TECHNICAL DATA

Technical data		
Typical Physical Properties and Characteristics		
Base Polymer (Flashing & Tape)	EPDM	FTIR
Colour (Flashing & Tape)	Black	Visual
Tensile Strength (uncured)	250 psi max.	ASTM D 412 Die C
Elongation (uncured)	600% min.	ASTM D 412 Die C
Ozone Resistance	No Cracking	ASTM D 1149
Peel Strength	10 pli @ 70°F	ASTM D 413
Sheer Strength	20 psi @ 70°F	ASTM D 816
Brittleness Temperature	-50°F	ASTM D 2137

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are typical values and are not to be interpreted as manufacturing specifications.

OTHERS

Basic Use

Effisus Bond FT Tape is ideal for flashing rooftop penetrations and other details such as:

- Overlay at T-joints, corners, pipes, and penetrations,
- General repair in non-traffic areas,
- Gravel stop flashing,
- General purpose flashing,
- Metal edge tie-in.

Surface Preparation

All work surfaces should be clean, dry, and free of dirt, dust, debris, oils, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is uneven. If necessary, clean the surface to receive the flashing with an approved EPDM membrane cleaner.

Safety

Prior to working with this or any product consult product label and Material Safety Data Sheet (MSDS) for necessary health and safety precautions.

OTHERS

Limitations

- Not for use on PVC roof membranes.
- Not for use in high traffic areas.
- Talc, dust, oil, ice, snow, or wet conditions inhibit good adhesion. Clean and dry surfaces are necessary for proper installation of this product.

Features	Benefits
Resistance to UV light, high heat and moisture	Long-term durability
Excellent adhesion and formability	Flashing details with proven peel-n-stick technology
No torch or liquid adhesives	Improved safety
Fast installation	Saves time and labour
Waterproof detail	Suitable for roofing or waterproofing applications

Application

Clean entire surface where Effisus Bond FT Tape will be applied.

Apply EPDM primer to entire surface to be covered using the supplied scrub pad. NOTE: Use caution when installing at temperatures below 5°C to prevent blushing of EPDM primer (formation of condensation on surface of primer).

Allow the primer to dry to the touch (no material transfer, typically less than 20 minutes). Dry time will vary depending on ambient temperature and humidity.

Once the primer is dry immediately install Effisus Bond FT Tape.

Position Effisus Bond FT Tape over primed area and remove release liner. Press down and form Effisus Bond FT Tape by hand.

Roll the flashing with a 5.08cm wide silicone roller.

Seal edges of flashing detail with a recommended Effisus Sealant.

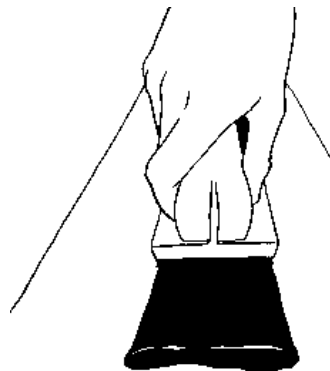


Fig. 1 – Priimer application.

OTHERS

Packaging and Coverage		
Widths	Length	Rolls/Case
127mm	30.48m	2
152mm	30.48m	2
229mm	15.24m	2
305mm	15.24m	1

Color

Black

Storage and Shelf Life

Store material in original unopened packaging at temperatures between 40°F-110°F. Shelf life is 9 months when stored as recommended.

CAUTION: All statements and technical information in this document are based on tests or data that Up-Way Systems believes is reliable. However, Up-Way Systems does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of Up-Way Systems' products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of Up-Way Systems' product with the design, structure, and materials of the user's end product and the suitability of Up-Way Systems' product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.

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Version

V 1.1 – AT – 22/12/2011

EFFISUS COAT SP PRIMER

DESCRIPTION

Effisus Coat SP Primer is a rubber polymer based roofing primer. Unlike thin primers that run and puddle, the high viscosity formulation promotes uniform coverage on both horizontal and vertical surfaces. Effisus Coat SP Primer does not react with atmospheric moisture allowing it to be opened and resealed for use at a later date.

TECHNICAL DATA

Technical data	
Typical Physical Properties and Characteristics	
Color	Translucent/off-white
Solids Content	15%
Colour (Cover & Tape)	White
Weight per Gallon	2.95 kg (6.50lbs)
VOC Content	675 grams per liter
Application Properties	
Application Temp.	-18°C to 43°C (0°F to 110°F)

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are typical values and are not to be interpreted as manufacturing specifications.

OTHERS

Basic Use

Effisus Coat SP Primer is used to prime EPDM and TPO roofing membrane to provide improved adhesion to the Effisus family of EPDM tapes, laminates, and sealants as well as Effisus line of TPO tapes, laminates, and sealants. Effisus Coat SP Primer is an excellent choice for priming concrete, OSB, plywood, and metal surfaces.

Surface Preparation

All work surfaces should be clean, dry, free of dirt, dust, debris, oils, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is uneven. If necessary, clean the surface with an approved EPDM or TPO membrane cleaner prior to application of Effisus Coat SP Primer.

Safety

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

Limitations

Do not use as a membrane cleaner.

Talc, dust, oil, ice, snow, or wet conditions inhibit good adhesion. Clean and dry surfaces are a necessity.

Not for use on PVC roof membranes.

Do not use on extruded or expanded polystyrene insulation.

At installation temperatures below 400F (4°C) care must be taken to prevent the formation of condensation on surface of primer.

OTHERS

Features	Benefits
High viscosity formula	Provides uniform coverage, no running or puddling
Fast drying	Speeds installation
Excellent adhesion to a variety of substrates (EPDM, TPO, metals, wood, and concrete)	Suitable for a wide variety of applications
Unique polymeric formulation	Long term durability

Application

Thoroughly shake or stir Effisus Coat SP Primer prior to use and re-stir every 15-20 minutes during use. Note: product may exhibit an “apple sauce” type texture even after agitation. This appearance is normal and will not adversely affect the product’s performance. For more information on primer appearance, see Effisus Coat SP Primer Technical Bulletin.

Do not dilute or extend Effisus Coat SP Primer.

Surfaces should be dry and clean before applying Effisus Coat SP Primer. EPDM and TPO surfaces should be cleaned with a suitable solvent such as mineral spirits or VM&P naphtha if necessary prior to priming. Observe all manufacturers’ safety precautions and use recommendations when using solvents. Do not smoke while working with primer

When the surfaces are dry, apply Effisus Coat SP Primer with a fully saturated brush or scouring pad. The surface should appear wet during application. Apply primer to a wider area than the actual bonding area to insure complete coverage. If using a scouring pad, be sure that it is free of excessive dust from EPDM membranes. Replace pads often. Do not overwork primer.

Allow primer to dry completely (typically less than 20 minutes) before applying tape. Primer will visually appear “dull” or “flat” and will feel dry to the touch. Drying conditions will vary depending on ambient air conditions. NOTE: Use caution when installing at temperatures below 5°C (40°F) to prevent blushing of Effisus Coat SP Primer (formation of condensation on surface of primer).

When not in use, keep lid on primer to prevent solvent evaporation. When finished, secure lid and store primer as recommended for use at a later date.

Once the seam or flashing is installed the primer will take up to 48 hours to wet-out the tape surface and build full strength. Any peel tests on installed seams or flashings should not be conducted until at least 24 hours after installation.

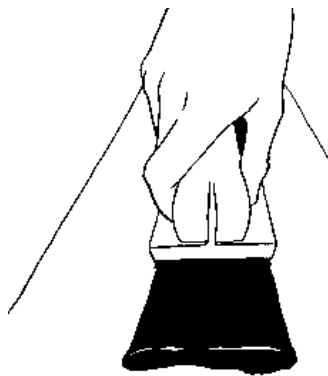


Fig. 1 – Primer application.

OTHERS

Packaging	
Pail size	Packaging
North America	
1 gallon (3.8l)	6 pails/case
3 gallon (11.4l)	30 pails/pallet
Europe	
1 gallon (3.8l)	6 pails/case

Coverage rate will be approximately 18.6-23.2m2 per liter.

Color

Off-White

Equipment clean-up

Use Mineral Spirits or VM&P naphtha. Observe all manufacturer’s safety precautions and use recommendations when using solvents.

Storage and Shelf Life

Store material in original unopened containers at temperatures between 4°C - 32°C (40°F - 90°F). Shelf life is 12 months when stored in unopened container.

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Version

V 1.1 – AP – 24/05/2016

PRIMER 9800

DESCRIPTION

Primer 9800 is a ready-for-use product, used as a primer for gluing self-adhesive roof covering membrane* onto various substrates and as a primer for Paste Adhesive 3300 when gluing EPDM facade strips.

TECHNICAL DATA

Technical data	
Type of product	Adhesive based on a synthetic rubber and synthetic resins, dissolved in inflammable organic solvents.
Apearance	Black
Viscosity (20°C)	900 ± 100 mPa.s (Method: SL 002A) (Brookfield RVF)
Flashpoint	< 0°C (Closed cup)
Density (20°C)	840 ± 10 kg/m ³ (Method: SL 006A)
Dry film	Elastic
Shelf life	12 months if stored cool in unopened packing.

OTHERS

Advantages

The use of Primer 9800 gives the following advantages:

- dust and loose particles are bonded
- gives a good binder course for self-adhesive membranes and Paste Adhesive 3300
- increases the adhesion and water-resistance of the bond
- decreases the minimum process temperature
- quick drying of the primer layer.

Directions for use

General

Primer 9800 is ready-for-use and must not be thinned or mixed with other products.

The material and the base to be glued must be dry and clean.

Primer 9800 should be applied in a thin even layer with a stiff brush or a finely-toothed spatula.

Adhesive consumption 100 – 200 g/m², depending on the surface to be glued.

*Compatibility with the substrates and the self-adhesive membrane must be tested.

Circumstances of application

Primer 9800 may only be used in dry weather-conditions, no moisture must be enclosed between the primer-layer and the self-adhesive membrane.

The tables below show the permitted range of environment conditions for successful adhesion:

Moisture absorbing surfaces, allowed when:
(concrete, aerated concrete, wood, etc.)

Application temperature	Surface	
	Dry	Slight moisture **
> 0°C	Yes	Yes ***
> 0°C + expecting frost	Yes	No
> -10°C	Yes	No

** On the water surface no water fillm may be presented

*** Unless the building process of the building itself, do not permit this. i. e. drying of the surface is not possible afterwards.

Non moisture absorbing surfaces, allowed when:
(metal, plastic profile, etc.)

Application temperature	Surface	
	Dry	Wet
> 0°C	Yes	No
> 0°C + expecting frost	Yes	No
> -10°C	Yes	No

Bitumen surfaces, allowed when:

Application temperature	Surface	
	Dry	Slight moisture **
> 0°C	Yes	Yes ****
> 0°C + expecting frost	Yes	No
> -10°C	Yes	No

****If in doubt always dry previously

Cleaning

Equipment and tools can be cleaned with Ethyl Acetate or white spirit.

Warning

Primer 9800 is highly flammable. Keep away from open fire.
Primer 9800 is not suitable as a primer.

FOR DETAILED INFORMATION AND ADVICE OUR TECHNICAL SALES STAFF ARE ALWAYS PLEASED TO BE OF SERVICE.
All information in this leaflet is based on our practical experience and reliable laboratory evaluations. Nevertheless, we cannot assume any responsibility for its use, the circumstances under which the products are stored, handled and used being beyond our control.

Version

V 1.2 – AT – 30/08/2011

EFFISUS COAT UP PRIMER (SOLVENT FREE)

DESCRIPTION

Adhesion primer for porous substrates, solvent free. Effisus Coat UP Primer is used for improvement of the adhesive properties of substrates which should be bonded.

TECHNICAL DATA

Technical data	
Typical Physical Properties and Characteristics	
Color	White
Type of product	Polyacrylate dispersion-based
Viscosity	80 mPa*s
Temperature range	-20°C to +60°C (after application)
Shelf life	12 months, unopened

OTHERS

Basic Use

Effisus Coat UP Primer is used to prime porous substrates, such as concrete or wood, Effisus EPDM membranes or Effisus Tapes to provide improved adhesion to the Effisus family of membranes, tapes, laminates, and sealants.

Application

Apply Effisus Coat UP Primer on the surfaces that should be bonded

Let the primer dry well before further processing - the surface of the applied primer should feel mostly dry

Apply several times on difficult substrates, if necessary, and allow to dry well each time

Apply the adhesive tape / membrane / adhesive on the treated surface and press firmly - observe the instructions for use of the respective adhesive tape / membrane / adhesive.

Application notes

Apply at temperatures +5 °C to +35 °C

Drying time approx. 30 min to 60 min

Store in dry rooms from +5 °C to +25 °C, protected from UV-radiation, frost free

Keep it away from children!

Advantages

Solvent free

Non-dangerous good

Easy and even to apply

Quick-drying

OTHERS

Packaging

Can with safety lock, content 1 kg
PE can, content 5 kg

Consumption rates (experience)

Stone/concrete approx. 12 m²
Soft wood fiber boards approx. 6m²

Ecology

Solvent free
No environmental or indoor toxins
Consume quickly after opening
Disposal safely as domestic waste

Safety

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

Version

V 1.1 – AP – 19/02/2018

EFFISUS BONDING KF+P ADHESIVE

DESCRIPTION

Effisus Bonding KF+P Adhesive is a single component adhesive / sealant based on PDMS polymer, solvent-free, for bonding / sealing EPDM and butyl to concrete, masonry, wood, glass, aluminium, steel and bitumen or lap joint connections.

TECHNICAL DATA

Technical characteristics	
Base	PDMS polymer
Colour	Black
Viscosity	Pasty
Density	1.2 g/cm ³
Skin formation	25min

OTHERS

Processing temperature

-5°C to +35°C (surface temperature)
Do not use with temperatures below -5°C.
Do not seal on wet or frozen ground.

Preparation

The surfaces must be dry, clean and free of dust and grease. Pretreatment may be recommended.
Effisus Bonding KF+P Adhesive can be apply with hand or air gun or using a spatula.
Insert the EPDM or butyl material to adhere/ seal immediately, after 10 minutes at the latest and press.
The exact waiting time depends on room temperature, film thickness and absorbency of the substrate.
Due to the different compositions and qualities of foils, preliminary tests are recommended.

Cleaning

Effisus Setup PR Cleaner.

Storage

Store in original containers, at temperatures between +15°C and +35°C and not for more than 12 months.

Safety

Please notice the indications on safety-data-sheet and the safety-indications on the labels of each product for the treatment of our products. Especially the directions of the Dangerous Substance Regulation have to be respected.
Keep the safety-data-sheet of the product you treat ready to hand. It gives you valuable indications for the safe usage, disposal and in case of accidents.

Packaging

310ml Cartridge (Carton of 12 pieces)
600ml Sausage (Carton of 12 pieces)

Accompanying Document

Edition 01/2012

Version

V 1.2 – AP – 09/05/2016 15/15