

# Fabrics Type II, III, IV

## Type II Fabric

### PRODUCT DESCRIPTION

Type II Fabric is a high performance non-woven polyester engineering fabric created using thermally bonded fibers of polyethylene terephthalate and polyethylene terephthalate/adipate. This durable polyester fabric is used to reinforce the waterproof membranes in Mer-Ko's Shur Deck, Weather Deck, Dual Pro 380, Auto Deck, ARC Membrane, and Hydro-Guard systems.

### CHARACTERISTICS

- Significantly reduces reflective cracking
- Flexible, resists tearing
- High tensile strength
- Easy to install
- Non-adhesive
- Tough and durable

### CAUTIONS & LIMITATIONS

- Must be incorporated into the waterproof membrane during application
- Not intended for use as a finished surface
- Avoid exposing to sharp objects that could cut or puncture the material
- Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

### COLOR

White bonded fibrous mat

### PACKAGING

Small Roll 3' X 75' roll  
 Large Roll 3' X 400' roll

### APPLICATION

#### Horizontal Surface-Reinforced Waterproof Membrane

Waterproof the horizontal surface by applying 1 thick coat of the appropriate waterproofing membrane at the system's required thickness over the primed surface, using a trowel or roller, ensuring complete coverage. Immediately and while the material is still wet, embed the fabric into the wet waterproofing membrane saturating it completely.

Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the fabric should lay completely flat and without wrinkles. Overlap successive runs of fabric edges a minimum of 2 inches (51 mm). Apply additional Waterproofing Membrane as necessary over areas to ensure positive waterproofing (no pinholes). Apply the membrane/fabric/membrane layers in sections working across and off of the horizontal surface.

Follow with an additional coat of waterproofing membrane using the same methods, completely covering the fabric. Allow the entire area to dry a minimum of 24 hours at 70°F (21°C) 50% RH, until dry enough to walk on without leaving impressions. Applications in elevated humidity conditions will require additional dry time.

### FIRST AID

#### EYE CONTACT

None required; however, use of eye protection is good industrial practice.

### TECHNICAL DATA

<b>Coverage Rate</b> .....	Small Roll, 225 ft <sup>2</sup> (20.9 m <sup>2</sup> ) Large Roll, 1,200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
<b>Type II Construction</b> .....	non-woven thermally bonded polyester fibers
<b>Specific gravity</b> .....	1.37
<b>Thickness</b> .....	0.30mm (11.8 mils)
<b>Grab Tensile Strength</b> .....	MD.....61 lb ft (270 N) (ASTM D4632) TD.....61 lb ft (270 N)
<b>Grab Tensile Elongation</b> .....	MD.....45% (ASTM D4632) TD.....50%
<b>Trapezoid (tear strength)</b> .....	MD.....23 lb ft (100 N) TD.....23 lb ft (100 N)
<b>Weight</b> .....	2.1 oz/sq yd
Meets Automotive Flammability Standard FMVSS 302	

### SKIN CONTACT

None required; however, use of protective gloves/clothing is good industrial practice.

### INHALATION

None required; however, use of adequate ventilation is good industrial practice. It is very unlikely a hazardous condition will exist or be created when working with this product. The ingredients are encapsulated in polymer, and unless the product construction is destroyed or severely altered, the ingredients will remain in the encapsulated state. Remove victim to fresh air. Drink water and blow nose. If breathing is difficult, contact physician.

### FIRE

Special fire Fighting Procedures – Wear self-contained breathing apparatus. Unusual fire & Explosion Hazards – Resin may burn causing dense smoke and toxic gases. Polyester fabrics will melt at approximately 490°F and typically will burn when exposed to sufficient flame. Combustion and decomposition gases and products may consist of carbon, hydrogen, oxygen and nitrogen in various combinations. Fire fighters should take precautions against breathing combustion gases. Molten polyester can cause severe burns to the skin.

### SPILL OR LEAK

Spill Procedure – N/A Waste generated by use or demolition is not considered hazardous by RCRA (40 CFR, Part 261). Pick up large pieces and vacuum up dust. If sweeping is necessary, use a dust suppressant. Waste Disposal Method – May be incinerated or land filled in accordance with local, state, and federal regulation.

### STORAGE & HANDLING

Store rolls off the ground, on end and in a dry environment. Do not store in direct sunlight. All materials should be stored in compliance with local fire and safety requirements. Always wear proper safety equipment, including particle mask, eye protection and gloves when applying these products. Ensure good exhaust ventilation at workplace.

### SHELF LIFE

Product can be stored indefinitely, when properly stored.

### WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or [www.parexmer-ko.com](http://www.parexmer-ko.com)

## Type III Fabric

### PRODUCT DESCRIPTION

Type III fabric is a high performance woven polypropylene engineering fabric. This durable fabric is used to reinforce the waterproof membranes in Mer-Ko's Shur Deck, Weather Deck, Dual Pro 380, Auto Deck, ARC Membrane, and Hydro-Guard systems.

Type III 10" Fabric is the standard vertical to horizontal perimeter waterproof membrane reinforcement for Mer-Ko's Shur Deck, Weather Deck, Dual Pro 380, Auto Deck, ARC Membrane, and Hydro-Guard systems.

Type III 40" Fabric is the standard horizontal waterproof membrane reinforcement for Mer-Ko's Auto Deck. Type III Fabric can also be used in place of the Type II Glassmat fabric in Mer-Ko's Shur Deck, Weather Deck, Dual Pro 380, ARC Membrane, and Hydro-Guard systems.

### CHARACTERISTICS

- Significantly reduces reflective cracking
- Flexible, resists tearing
- High tensile strength
- Easy to install
- Non-adhesive
- Tough and durable
- Excellent performance

### CAUTIONS & LIMITATIONS

- Must be incorporated into the waterproof membrane during application
- Not intended for use as a finished surface
- Avoid exposing to sharp objects that could cut or puncture the material
- Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

### COLOR

White woven yarn

### PACKAGING

10" X 300' Roll  
40" X 30' Roll

### APPLICATION

#### Base Flashing - Reinforced Waterproof Membrane

Waterproof the flashing area by applying one thick coat of the appropriate waterproofing membrane onto the primed vertical surface and onto the adjacent horizontal surface far enough to accommodate the remaining portion or the 10" fabric using a brush or roller, at the system's required thickness. Immediately embed the 10" synthetic burlap (Type III Fabric) filament/fuzzy side down in the wet waterproofing membrane saturating it completely, overlapping successive runs of fabric edges a minimum of 2 inches (51 mm). Make sure the burlap is fitted tightly in corners and around protrusions. Brush apply waterproofing membrane into tight areas and corners to fill holes and other voids. Apply additional waterproofing membrane as necessary over flashing areas to ensure positive waterproofing (no pinholes). Using the same methods, apply a second coat of waterproofing membrane to all vertical surfaces completely covering the burlap.

#### Horizontal Surface - Reinforced Waterproof Membrane

Waterproof the horizontal surface by applying 1 thick coat of the appropriate waterproofing membrane at the systems required thickness over the primed surface, using a trowel or roller, ensuring complete coverage. Immediately and while the material is still wet, embed the 40" Synthetic Burlap (filament/fuzzy side down) fabric into the wet waterproofing membrane saturating it completely.

Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the fabric should lay completely flat and without wrinkles. Overlap successive runs of fabric edges a minimum of 2 inches (51 mm). Apply additional waterproofing membrane as necessary over areas to ensure positive waterproofing (no pinholes). Apply the membrane/fabric/membrane layers in sections, working across and off of the horizontal surface. Follow with an additional coat of waterproofing membrane insuring to completely cover the fabric. Allow the entire area to dry a minimum of 24 hours at 70°F (21°C) 50% RH. Applications in elevated humidity conditions will require additional dry time.

### TECHNICAL DATA

<b>Coverage Rate</b> .....	10" Roll, 300 LFT (91.5m)
	40" Roll, 300 LFT/1000ft <sup>2</sup> (93m <sup>2</sup> )
<b>Type III Construction</b> .....	Leno Weave
<b>Specific Gravity</b> .....	0.9
<b>Grab Tensile Strength</b> .....	WARP..... 90 lbs
(ASTM D4632)	WEFT..... 70 lbs
(Shrinkage at 270°F)	WARP..... 6.0%
	WEFT..... 5.0%
<b>Weight</b> .....	2.4 oz/sq yd

### FIRST AID

#### EYE CONTACT

None required; however, use of eye protection is good industrial practice.

#### SKIN CONTACT

None required; however use of protective gloves/clothing is good industrial practice.

#### INHALATION

None required; however, use of adequate ventilation is good industrial practice. It is very unlikely a hazardous condition will exist or be created when working with this product. The ingredients are encapsulated in polymer, and unless the product construction is destroyed or severely altered, the ingredients will remain in the encapsulated state. Remove victim to fresh air. Drink water and blow nose. If breathing is difficult, contact physician.

#### FIRE

Special fire Fighting Procedures – Wear self-contained breathing apparatus. Unusual fire & Explosion Hazards – Resin may burn causing dense smoke and toxic gases.

#### SPILL OR LEAK

Spill Procedure – N/A Waste generated by use or demolition is not considered hazardous by RCRA (40 CFR, Part 261). Pick up large pieces and vacuum up dust. If sweeping is necessary, use a dust suppressant. Waste Disposal Method – May be incinerated or land filled in accordance with local, state, and federal regulation.

### HANDLING & STORAGE

Store rolls off the ground on end and in a dry environment. Do not store in direct sunlight. All materials should be stored in compliance with local fire and safety requirements. Always wear proper safety equipment, including particle mask, eye protection and gloves when applying these products. Ensure good exhaust ventilation at workplace.

### SHELF LIFE

Product can be stored indefinitely, when properly stored in the original container.

### WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or [www.parexmer-ko.com](http://www.parexmer-ko.com)

# Product Data Sheet

## Fabrics Type II, III, IV

### Type IV Fabric

#### PRODUCT DESCRIPTION

Type IV Fabric is a 100% Polyester premium grade stitch bond, warp knit, woven fabrics that have been heat set, disperse printed or disperse dyed. This fabric provides high strength properties with good elongation to flex with thermal stress forces. It conforms readily to uneven surfaces and tight corner details and is ideal for use as a perimeter reinforcement fabric for small scale waterproof decking projects.

Type II Fabric is a high performance non-woven polyester engineering fabric created using thermally bonded fibers of polyethylene terephthalate and polyethylene terephthalate/adipate. This durable polyester fabric is used to reinforce the waterproof membranes in Mer-Ko's Shur Deck, Weather Deck, Dual Pro 380, Auto Deck, ARC Membrane, and Hydro-Guard systems.

Type IV & Type II reinforcing fabric kits can be used for small scale Mer-Ko's Weather Deck, Shur Deck, Dual Pro 380, ARC Membrane, and Hydro-Guard systems.

#### CHARACTERISTICS

- Significantly reduces reflective cracking
- Flexible, resists tearing
- High tensile strength
- Easy to install
- Non-adhesive
- Tough and durable

#### CAUTIONS & LIMITATIONS

- Must be incorporated into the waterproof membrane during application
- Not intended for use as a finished surface
- Avoid exposing to sharp objects that could cut or puncture the material
- Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

#### COLOR

Natural (White)

#### PACKAGING

Small kit contains both an 8" X 90' Type IV and a 3' X 75' Type II roll in a single box.

Large kit contains both an 8" X 165' Type IV and a 3' X 400' Type II roll in a single box.

#### APPLICATION

##### Base Flashing – Reinforced Waterproof Membrane

Waterproof the flashing area by applying one thick coat of the appropriate waterproofing membrane onto the primed vertical surface and onto the adjacent horizontal surface far enough to accommodate the remaining portion or the 8" fabric, a minimum of 2 inches, using a brush or roller, at the system's required thickness. Immediately embed the 8" polyester stitch bond (Type IV Fabric) in the wet waterproofing membrane, saturating it completely, overlapping successive runs of fabric edges a minimum of 2 inches (51 mm).

Make sure the fabric is fitted tightly in corners and around protrusions. Brush apply waterproofing membrane into tight areas and corners to fill holes and other voids. Apply additional waterproofing membrane as necessary over flashing areas to ensure positive waterproofing (no pinholes).

Using the same methods, apply a second coat of waterproofing membrane to all vertical surfaces at the system's required thickness completely covering the Fabric.

##### Horizontal Surface-Reinforced Waterproof Membrane

Waterproof the horizontal surface by applying 1 thick coat of the appropriate waterproofing membrane at the system's required thickness over the primed surface, using a trowel or roller, ensuring complete coverage. Immediately and while the material is still wet, embed the Glassmat Type II fabric into the wet waterproofing membrane, saturating it completely.

Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the fabric should lay completely flat and without wrinkles. Overlap successive runs of fabric edges a minimum of 2 inches (51 mm).

#### TECHNICAL DATA

##### Coverage Rate

Small kit Type IV 90 LFT (27.42 m) roll, and a Type II 225 ft<sup>2</sup> (20.9 m<sup>2</sup>) roll  
Large kit Type IV 165 LFT (50.3 m) roll, and a Type II 1,200 ft<sup>2</sup> (111.5 m<sup>2</sup>) roll

<b>Type IV Construction</b> .....	Stitch bond
<b>Specific Gravity</b> .....	1.38
<b>Gauge</b> .....	.18
<b>CPI</b> .....	18
<b>Thickness</b> .....	0.46mm (18 mils)
<b>Tensile Strength (1" Jaws)</b> .....	WARP 74 lbs
<b>ASTM D5034</b> .....	WEFT 45 lbs
<b>Elongation at Break</b> .....	WARP 21.3%
<b>ASTM D5034</b> .....	WEFT 51.3%
<b>Ball Burst</b> .....	111 lbs
<b>ASTM D3787</b>	
<b>Trapezoid (Tear Strength)</b> .....	WARP 13.5 lbs
	WEFT 24.2 lbs
<b>Weight</b> .....	3.41 oz/sq yd

<b>Type II Construction</b> .....	non-woven thermally bonded polyester fibers
<b>Specific gravity</b> .....	1.37
<b>Thickness</b> .....	0.30mm (11.8 mils)
<b>Grab Tensile Strength</b>	MD 61 lb ft (270 N)
<b>ASTM D4632</b>	TD 61 lb ft (270 N)
<b>Grab Tensile Elongation</b>	MD 45%
<b>ASTM D4632</b>	TD 50%
<b>Trapezoid (tear strength)</b>	MD 23 lb ft (100 N)
	TD 23 lb ft (100 N)
<b>Weight</b> .....	2.1 oz/sq yd
Meets Automotive Flammability Standard FMVSS 302	

Apply additional waterproofing membrane as necessary over areas to ensure positive waterproofing (no pinholes). Apply the membrane/fabric/membrane layers in sections working across and off of the horizontal surface.

Follow with an additional coat of waterproofing membrane using the same methods at the system's required thickness completely covering the fabric. Allow the entire area to dry a minimum of 24 hours at 70°F (21°C) 50% RH, until dry enough to walk on without leaving impressions. Applications in elevated humidity conditions will require additional dry time.

#### FIRST AID

##### EYE CONTACT

None required; however, use of eye protection is good industrial practice.

##### SKIN CONTACT

None required; however use of protective gloves/clothing is good industrial practice.

##### INHALATION

None required; however, use of adequate ventilation is good industrial practice. It is very unlikely a hazardous condition will exist or be created when working with this product. The ingredients are encapsulated in polymer, and unless the product construction is destroyed or severely altered, the ingredients will remain in the encapsulated state. Remove victim to fresh air. Drink water and blow nose. If breathing is difficult, contact physician.

##### FIRE

Special Fire Fighting Procedures – Wear self-contained breathing apparatus. Unusual fire & Explosion Hazards – Resin may burn causing dense smoke and toxic gases. Polyester fabrics will melt at approximately 490°F and typically will burn when exposed to sufficient flame. Combustion and decomposition gases and products may consist of carbon, hydrogen, oxygen, and nitrogen in various combinations. Fire fighters should take precautions against breathing combustion gases. Molten polyester can cause severe burns to the skin.

# Product Data Sheet

## Fabrics Type II, III, IV

### SPILL OR LEAK

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### STORAGE & HANDLING

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### SHELF LIFE

Product can be stored indefinitely, when properly stored in the original container.

### WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or [www.parexmer-ko.com](http://www.parexmer-ko.com)

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