



SECONDARY OIL CONTAINMENT

SAM™ SUPER ABSORBENT MAT

ABSORB & TRAP SMALL TRANSFORMER OIL LEAKS

Manage chronic leaks, localize and isolate small accidental spills, and make clean-up easy with Albarrie's **SAM™ Super Absorbent Mat**, a permeable oil-reactive smart fabric that allows water to pass through but absorbs and locks-in oil, immobilizing it on contact.

KEY BENEFITS



ZERO MAINTENANCE REQUIRED

Install it and leave it until saturated.



RAPID INSTALLATION

No special equipment is required. Typical installation completed in one day.



SIGNIFICANT COST SAVINGS

Affordable leak management alternative to a full containment system.



CUSTOM-CUT LENGTHS

Rolls are 105 feet (32 m) long by 15 feet (4.5 m) wide, custom cut to your width requirements.

HOW IT WORKS

SAM™ works as a **permeable reactive barrier (PRB)** for an oil-contaminant plume. As the plume moves (typically under a natural gradient) and flows through the **SAM™** smart fabric geotextile, treated water exits the other side, minimizing environmental damage.

The smart fabric contains a unique proprietary blend of dense oil-immobilizing polymers called **Alabsorb** between two needlepunched nonwoven fabric layers. The polymers chemically react to the oil's hydrocarbons, trapping and absorbing them within the fabric.



FEATURES

- Smart Fabric Technology
- Absorbs up to 4.5 gal/yd² (20 L/m²)
- Needlepunched nonwoven geotextiles with oil-immobilizing polymers

OPTIONS

- Slitting

APPLICATIONS

- Permeable Reactive Barrier (Dependent on Type of contaminant)

SAM™

SUPER ABSORBENT MAT

CONSTRUCTION

Top layer: White Non-Woven Geotextile F8145

Absorbent Layer: Albasorb 8515D

Scrim Support: Woven Polypropylene

Bottom Layer: White Non-Woven Geotextile 215B

SPECIFICATIONS

PROPERTY	VALUES	TEST METHOD
Mass Per Unit Area (Nom.)	96.3 oz/yd ² 3265 g/m ²	ASTM D5993
Mass Per Unit Area (Min.)	88.1 oz/yd ² 2988 g/m ²	ASTM D5993
Polymer Loading (Nom.)	82.6 oz/yd ² 2800 g/m ²	Manufacturer Technical Data
Polymer Loading (Min.)	73.7 oz/yd ² 2500g/m ²	Manufacturer Technical Data
Peel Strength (Min.)	0.35 lb/in 62.5 gr/cm	ASTM D6496
Peel Strength (Min.)	1.76 lbf 0.8 kgf	ASTM D4632
Grab Tensile	80 lbf 36.3 kgf	ASTM D6768
Elongation at Peak (max)	30%	ASTM D4632
Puncture Resistance	194 lbf 88 kgf	ASTM D4833
CBR Puncture Strength	345 kgf 761 lbf	ASTM D6241
Trapezoidal Tearing Strength MD	150 lbf 68 kgf	ASTM D4533
Trapezoidal Tearing Strength CD	91 lbf 41 kgf	ASTM D4533
Hydraulic Conductivity (@ 5 psi, 20°C)	5.2x10 ⁻⁵ cm/s	ASTM D5084
Absorption Rate**	3.5 gal/yd ² 15.8 L/m ²	Manufacturer Technical Data

* applies to non-woven components only.

** Test method: 1 drop/second over a period of 5.5 hrs.

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