

# REACTIVE CORE MAT™

## WITH ORGANOCLAY®

### DESCRIPTION

ORGANOCLAY® REACTIVE CORE MAT™ is a permeable composite of geotextiles and granular Organoclay that reliably adsorbs NAPL and low solubility organics from water. Batch isotherm testing by a university determined the following partition coefficients:

- Naphthalene, Kd = 3280 L/kg
- Phenanthrene, Kd = 117,000 L/kg
- Pyrene, Kd - 286,000 L/kg

### APPLICATION

**ORGANOCLAY® REACTIVE CORE MAT™ is designed for use in the following applications:**

- In situ subaqueous cap for contaminated sediments or post-dredge residual sediments
- Embankment seepage control
- Groundwater remediation

### BENEFITS

- ORGANOCLAY® REACTIVE CORE MAT™ provides a reactive material that treats contaminants carried by advective/diffusive flow
- Reactive cap allows for thinner cap thickness than a traditional sand cap
- Geotextiles provide stability and physical isolation of contaminants

### AVAILABILITY

**ORGANOCLAY® REACTIVE CORE MAT™ is available from the following CETCO plant locations:**

- 92 Highway 37, Lovell, WY

### PACKAGING

15' by 100' rolls, packaged on 4" PVC core tubes wrapped with polyethylene plastic packaging.



REACTIVE CORE MAT™ is designed to provide a simple method of placing active materials into subaqueous sediment caps.

### TESTING DATA

PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	RESULTS
<b>ORGANOCLAY<sup>1</sup></b>		
Bulk Density Range	ASTM D 7481	44 - 56 lbs/ft <sup>3</sup>
Oil Adsorption Capacity	CETCO Test Method	0.5 lb of oil per lb of Organoclay, min
Quaternary Amine Content	ASTM D 7626	25 - 33% quaternary amine loading
<b>FINISHED RCM PRODUCT</b>		
Organoclay Mass per Area	CETCO Test Method	0.8 lb/ft <sup>2</sup>
Mat Grab Strength <sup>2</sup>	ASTM D4632	90 lbs. MARV
Hydraulic Conductivity <sup>3</sup>	ASTM D4491	1 x 10 <sup>-3</sup> cm/sec minimum

NOTES:

<sup>1</sup> Organoclay properties performed periodically on material prior to incorporation into the RCM

<sup>2</sup> All tensile testing is performed in the machine direction

<sup>3</sup> Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy's Law and RCM thickness per ASTM D5199 for geotextiles

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