

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



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

PACKAGING

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

TESTING DATA

PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	RESULT
ORGANOCLAY¹		
Bulk Density Range	ASTM D 7481	44 - 56 lbs/ft ³
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
FINISHED RCM PRODUCT		
ORGANOCLAY Mass per Area	CETCO Test Method	0.8 lb/ft ²
Mat Grab Strength ²	ASTM D4632	90 lbs. MARV
Hydraulic Conductivity ³	ASTM D4491	1 x 10 ⁻³ cm/sec minimum

NOTES:

¹ ORGANOCLAY properties performed periodically on material prior to incorporation into the RCM

² All tensile testing is performed in the machine direction

³ 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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