

REACTIVE CORE MAT™ WITH APATITE

DESCRIPTION

REACTIVE CORE MAT™ with Apatite is a permeable composite of geotextiles and a mineral that adsorbs and sequesters certain metals from water.

APPLICATION

REACTIVE CORE MAT™ with Apatite 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

- REACTIVE CORE MAT™ with Apatite provides a reactive material that treats contaminants which are carried by advective or diffusive flow
- Reactive cap allows for thinner cap thickness than a traditional sand cap
- Geotextiles provide stability and physical isolation

AVAILABILITY

REACTIVE CORE MAT™ with Apatite is available from the following CETCO plant location:

- 218 NE Industrial Park Rd., Cartersville, GA

PACKAGING

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



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

TESTING DATA

PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	RESULTS
APATITE¹		
Bulk Density Range	CETCO Test Method	90-100 lbs/ft ³
FINISHED RCM PRODUCT		
Organoclay Mass per Area	CETCO Test Method	0.8 lb/ft ²
Mat Grab Strength ²	ASTM D4632	90 lb. MARV
Hydraulic Conductivity ³	Mod. ASTM D4491	1 x 10 ⁻³ cm/sec minimum

NOTES:

¹ Apatite 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

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