BAROID DIAMOND SEAL® Absorbent Polymer for Lost Circulation



Description	DIAMOND SEAL <sup>®</sup> lost circulation material is a 100% active, water-swellable, synthetic polymer. DIAMOND SEAL polymer LCM absorbs hundreds of times its own weight in water. It is intended for use primarily as a lost circulation material for horizontal directional drilling (HDD).			
Applications/Functions	<ul> <li>The use of DIAMOND SEAL absorbent polymer can assist the following:</li> <li>Lost circulation material for horizontal directional drilling</li> <li>Prevent inadvertent returns in river crossing applications</li> <li>Stabilize borehole in cobble and gravel</li> <li>Stabilize unconsolidated formations</li> </ul>			
Advantages	<ul> <li>Rapid water absorption</li> <li>Effective in mitigating lost circulation</li> <li>Economical – small quantity yields large volume</li> <li>Easy to use</li> <li>Non-fermenting</li> </ul>			
Typical Properties	Appearance	off-white crystals		
	Specific gravity	0.75		
	Dry screen analysis	96% through 5 mesh (4.0 mm)		
	Swelling capacity in fresh water	3.5 ft <sup>3</sup> /lb (0.22 m <sup>3</sup> /kg)		
Recommended Treatment	5			
	<ul> <li>Add DIAMOND SEAL polymer LCM at 10 - 20 lb/100 gallons of drilling fluid</li> </ul>			
	<ul> <li>Add DIAMOND SEAL polymer LCM at 12 - 24 kg/m<sup>3</sup> of drilling fluid</li> </ul>			
	Treatment for Loss of Circulation or InacOperations:(Prior to pumping remove all in-line screensAdd the following to existing drilling fluid anBAROLIFT <sup>®</sup> - $0.25 - 0.5$ lb/100 gallonsN-SEAL <sup>TM</sup> -3 - 5 lb/100 gallonsDIAMOND SEAL-10 - 20 lb/100 gallons	s in circulating system) d displace: allons (0.3 - 0.6 kg/m <sup>3</sup> ) s (3.6 - 6.0 kg/m <sup>3</sup> )		





Packaging	DIAMOND SEAL® absorbent polymer is packaged in 10 x 2-lb bags per case.			
Availability	DIAMOND SEAL absorbent polymer can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.			
	Baroid Industrial Drilling Products Product Service Line, Halliburton 3000 N. Sam Houston Pkwy E. Houston, TX 77032			
	Customer Service	(800) 735-6075 Toll Free	(281) 871-4612	
	Technical Service	(877) 379-7412 Toll Free	(281) 871-4613	