

FORDIA®

Matex Drilling Additives

Fordia distributes a wide range of environmentally safe drilling fluids and lubricants based on high-performance vegetable oil technology to reduce re-drills, avoid problems downhole and exceed performance standards.

These products increase productivity and lower costs by reducing time flushing the hole, bit balling, recovering stuck or lost rods, collaring the hole and re-drilling due to hole sloughing.

Matex products include:

- ✓ Drilling polymers
- ✓ Drill foam
- ✓ Tool lubricants
- ✓ Blast-hole stabilizer
- ✓ Thread compound
- ✓ Freeze control fluid
- ✓ Etc.



Control Chemical (1989) Corporation
Calgary, Alberta Canada

Choosing the right product

When it comes to drilling additives and lubricants, choosing the right product and using it properly are the keys to success. Our technical support team will help you select the appropriate fluid system. Please do not hesitate to contact your technical representative.

PRODUCT	DESCRIPTION	PART NO.
Viscosity Control		
DD-1200	Liquid viscosifier, perfect for overburden, sand and gravel areas.	41-006
DD-2000	Powdered viscosifier, perfect for overburden, sand and gravel areas.	41-007
DD-955	Multicharged viscosifier and shale clay saprolite kimberlite & talc stabilizer. Also used as a flocculant to drop cuttings in a return sump.	41-009
Ultravis	A high-tech liquid polymer viscosifier and fluid loss control product.	41-027
Fluid Control		
DD X-Pand	The best product to prevent water entering the hole from the aquifer.	41-004 (coarse) 41-005 (fine)
Slo-Freeze ES	Environmentally safe fluid extends drilling water freezing time. Non-corrosive. Protects tank and plumbing system through lubricating capabilities.	40-018
Torque Reducer		
Torqueless	The ULTIMATE product for in hole torque reducing, protecting against rod wear, preventing rust and extending bit life.	41-025
Stabilizer		
Sand-Drill	A powerful drilling additive to reduce the difficulties of drilling through sand, gravel and cobbles.	40-017

Viscosity Control

DD 1200

RECOMMENDED USE	DD 1200 can be fed directly into the suction hose, agitated with a mixer tank, paddled into a holding tank, or dripped into the holding tank close to the suction intake. DD 1200 can be used in conjunction with all Matex drilling fluid additives. Performs best when mixed with Torqueless.	
DESCRIPTION	<p>DD 1200 is an ultra high molecular weight liquid viscosifier and fluid loss reducer which can be used in either fresh or brine water. It is used in the diamond, rotary, and seismic drilling industries. DD 1200 rapidly builds viscosity and is very resistant to any contaminants that may be encountered while drilling.</p> <p>DD 1200 has excellent sheer resistant properties which prevent viscosity breakdown after it is pumped downhole and circulated back to surface. DD 1200 can be used for all drilling applications, especially in shales, clays, blocky or fractured formations, overburden, sands and gravel.</p> <p>*No special precautions are necessary, but contact with skin and eyes should be avoided. Due to water composition and drilling conditions, these dosages may vary. DD 1200 can be stored either indoors or outdoors and has an excellent freeze/thaw recovery.</p>	
SUGGESTED DOSAGE	Normal drilling operations	1.5 l or less per 1,000 l of water/2.5 US quarts per 250 gallons of water
	Difficult drilling conditions	2 l or less per 1,000 l of water/5 US quarts per 250 gallons of water

DD 2000

RECOMMENDED USE	Viscosifier in overburden, sand and gravel areas.	
DESCRIPTION	<p>DD 2000 is an environmentally safe, very high molecular weight, powdered viscosifier that can be used in either fresh or brine water. It can be used in diamond, rotary or percussive drilling. DD 2000 imparts excellent viscosity yield. It is a superior product for stabilization in overburden, sand and gravel areas.</p> <p>DD 2000 is effective in drilling conditions where groundwater temperatures exceed 150° F. DD 2000 reduces transportation costs for drilling because of its concentrated nature. DD 2000 combined with Torqueless reduces lost casing.</p>	
SUGGESTED DOSAGE	0.7 – 2.4 kg per 1,000l of water/0.5 – 2.0lb per 250 gallons of water	

Viscosity Control

DD 955

RECOMMENDED USE	Multicharged viscosifier for shale, clay, saprolite, kimberlite, and talc inhibiting.	
DESCRIPTION	DD 955 is a multicharged liquid viscosifier and formation stabilizer specifically for use in areas plagued with shale and clay instability problems. Due to its ionic charges, DD 955 is absorbed directly onto shales and clays, thereby preventing the water damage that causes loss of core and hole stability. Once absorbed into the formation, the stabilizing effect imparted by DD 955 will remain resistant to any chemical changes in overall mud properties caused by varying geological and drilling conditions. Its effectiveness is enhanced when used with Torqueless.	
SUGGESTED DOSAGE	Normal drilling operations	1.5 l or less per 1,000 l of water/2.5 US quarts per 250 gallons of water
	Difficult drilling conditions	2 l or less per 1,000 l of water/5 US quarts per 250 gallons of water

Ultravis

RECOMMENDED USE	A high-tech liquid polymer viscosifier and fluid loss control product.	
DESCRIPTION	Ultravis is used for the diamond, horizontal, rotary or seismic drilling applications. Ultravis is a highly concentrated product that rapidly develops into a very high viscosity fluid when mixed with water. Ultravis provides viscosity yields 40-50% greater than conventional liquid polymers, and can be used in fresh or brine water. Ultravis is an excellent inhibitor against shales, clays, fractured zones, sand and blocky formations, and contaminants. Ultravis is resistant to viscosity change under high water temperature conditions. Ultravis has superior shear resistant properties. Its effectiveness is greatly enhanced when combined with Torqueless.	
SUGGESTED DOSAGE	1 l per 1,000 l of water	

Fluid Control

DD X-Pand (Coarse or Fine)

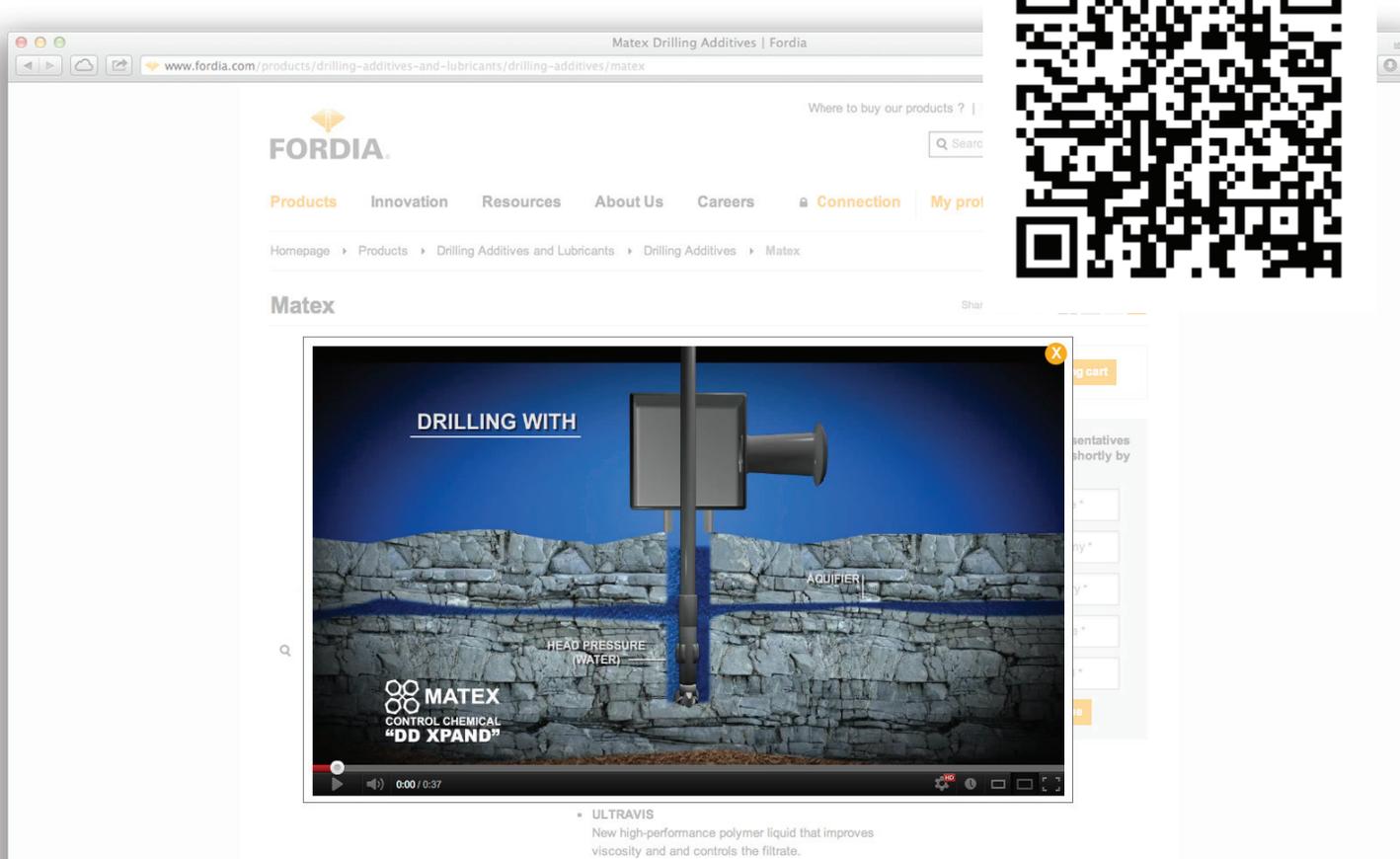
RECOMMENDED USE	Environmentally safe loss circulation and plug material.	
DESCRIPTION	DD X-Pand can be used in the oil and gas diamond, rotary, and seismic drilling industries. DD X-Pand allows drilling through highly fissured and fractured formations and can effectively shut off water flows and open voids.	
SUGGESTED DOSAGE	2.5 – 5.0 kg per 1,000 l of water/2 – 4 lb per 250 gallons of water	

Fluid Control

Slo-Freeze ES

RECOMMENDED USE	An environmentally safe fluid for extending the freezing time of drilling water, no glycol/alcohol.	
DESCRIPTION	<p>Slo-Freeze ES when mixed with drilling water on blasthole rigs, exploration drills, construction equipment, etc., slows the freezing process. Slo-Freeze ES is not a permanent antifreeze. It is an environmentally safe alternative to help avoid environmental contamination by pumping methanol or similar alcohols onto, or into, the ground.</p> <p>Slo-Freeze ES is non-corrosive and offers protection to the tank and pumping system due to its lubricating capabilities, unlike alcohol based systems. Slo-Freeze ES, similar to the alcohol based antifreeze, should be used for short periods of 48h to 72h for inactive equipment where water is not drained from the systems . Slo-Freeze ES is highly water soluble but will experience partial separation, over extended periods, as do the alcohol based antifreeze.</p>	
SUGGESTED DOSAGE	Protection in extreme cold periods	1:20 ratio when mixed with water. As temperatures and conditions lessen, mix ratios can be further diluted.

It is now easier to watch the videos associated to our Matex products. Read the QR code below with your cellphone or go directly to this address : <http://www.fordia.com/products/drilling-additives-and-lubricants/drilling-additives/matex> to learn more about these products.



The screenshot shows a web browser window displaying the Fordia website. The URL in the address bar is www.fordia.com/products/drilling-additives-and-lubricants/drilling-additives/matex. The website header includes the Fordia logo and navigation links: Products, Innovation, Resources, About Us, Careers, Connection, and My profile. A search bar is also present. The main content area features a video player with the title "DRILLING WITH MATEX CONTROL CHEMICAL DD XPAND". The video frame shows a cross-section of a wellbore with a drill pipe and bit. Labels include "AQUIFER" and "HEAD PRESSURE (WATER)". The video player has a progress bar at 0:00 / 0:37. Below the video player, there is a section for "ULTRAVIS" with a description: "New high-performance polymer liquid that improves viscosity and controls the filtrate."

Torque Reducer

Torqueless

RECOMMENDED USE	The ULTIMATE rotary and diamond drilling product for in hole torque reducing, protecting against rod wear, preventing rust, and extending bit life.
DESCRIPTION	<p>Torqueless is not just another soluble lube, it pays its way. Torqueless has produced both bit-life and penetration rate increases during diamond drilling operations. It is based on an environmentally safe technology which has proven to be effective in lubricating downhole consumables for years.</p> <p>Torqueless is non-sheening when accidentally introduced into a water course. It inhibits swelling of clay like materials such as saprolites, talcs & kimberlites. Torqueless is extremely effective for lubricating both downhole hammers and protecting against drill pipe wear during horizontal drilling (eliminating the need for rock drill oil). Torqueless protects drill rod wear when using wedges in diamond drilling.</p> <p>Torqueless increases tool joint life by reducing torque in the hole. Torqueless will enhance the effectiveness of powdered mud systems (bentonites, polymers, or pac's). Combined with the appropriate fluids and mixing systems, Torqueless will reduce stuck drill rods and lost casings in squeezing ground conditions.</p>
SUGGESTED DOSAGE	1:100 to 1:300 ratio depending upon drilling conditions and hole depth.



EXPERTS' ADVICE

Note that no special precautions are necessary while using Matex products. However, contact with skin and eyes should be avoided. Material safety data sheets are available for every product. Containers (20 l / 5 gal pails) cannot be returned and should not be reused under any conditions.

Stabilizer

Sand-Drill

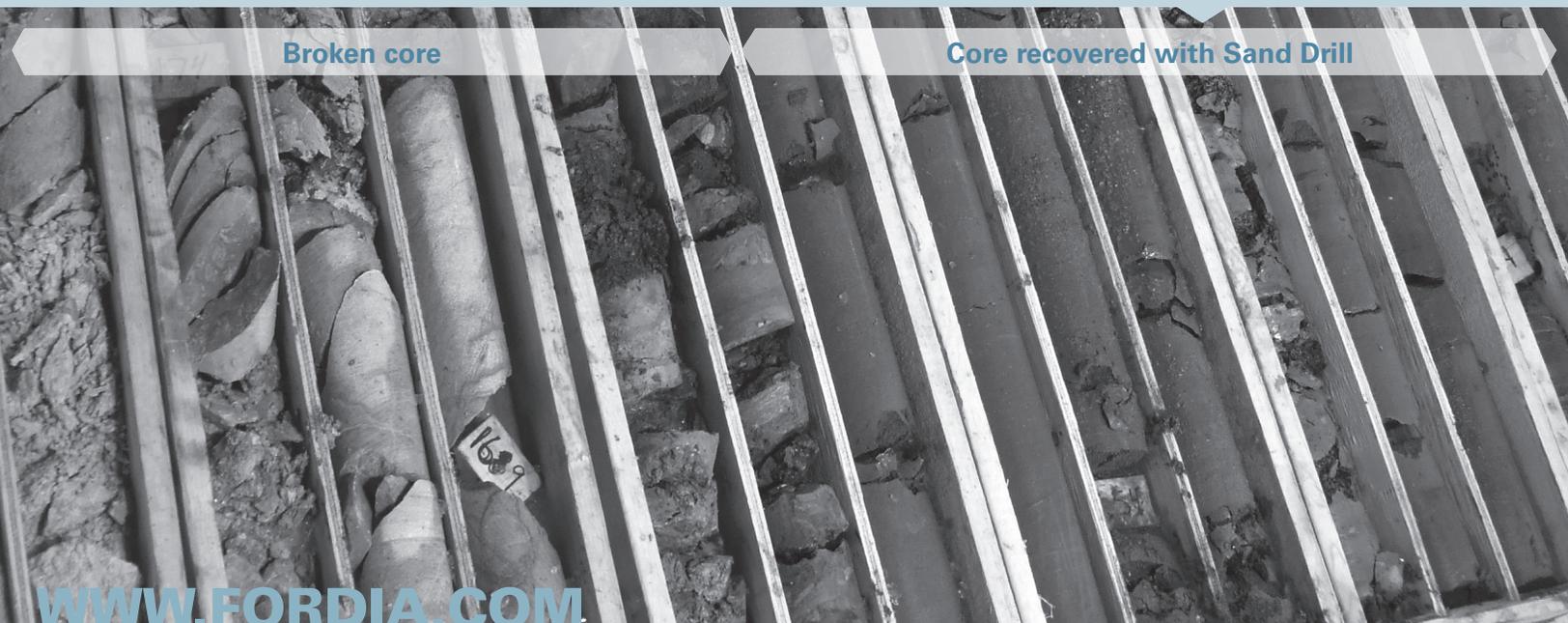
RECOMMENDED USE	A revolutionary generation of drilling additive to reduce the difficulties of drilling through sand, gravel and cobbles.
DESCRIPTION	<p>Sand-Drill is a unique blend of synthetic polymers providing a drilling fluid capable of stabilizing the most difficult sand conditions.</p> <p>Sand-Drill increases productivity and profits by effectively stopping shifting sands from collapsing into the bore hole.</p> <p>Sand-Drill is not affected by high water temperatures or salt water. It eliminates the need to use Bentonite, thus reducing disposal problems and transportation costs.</p> <p>Sand-Drill works alone without requiring a complicated multi-component mud system.</p> <p>This product should be pre-mixed with Torqueless before being introduced to fluid system.</p>
SUGGESTED DOSAGE	1:200 to 1:400 ratio when mixed with water. Shifting sands may require a stronger dosage.

EXPERTS' ADVICE

For specific information, any question on our products or difficult drilling conditions, please do not hesitate to contact your technical sales representative.

Broken core

Core recovered with Sand Drill



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