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Field Guide



Mixing System

> Sand Drill

DD-2000

Core Wrap

DD-955



Diamond Drilling Products



Torqueless

The ultimate environmentally safe water soluble diamond drilling lubricant for reducing in-hole torque, rod wear, preventing rust, extending bit life and tool life. Mix *Torqueless* with all Matex products!

MATEX DD DD-20

DD-2000

An environmentally safe dry powdered polymer, DD-2000 is mixed with **Torqueless** and water to create a very high viscosity drilling fluid used for the removal of cuttings and continuous borehole wall conditioning.



Sand Drill

A special dry blend of polymers for drilling through and achieving excellent core recovery in sand, gravel and cobbles. Always premix with **Torqueless** before introducing to water.



Core Wrap

An environmentally safe unique blend of powdered polymers designed to reduce costs while retrieving maximum core potential in unconsolidated formations.



MATEX

MATEX

MATE

DD-955

A multi-charged liquid or dry polymer and formation stabilizer for use with shale and clay reducing in hole swelling and instability problems.

Ultravis

A highly concentrated liquid polymer. Mixed with *Torqueless* and water, creating a high viscosity drilling fluid used for removal of cuttings and continuous borehole wall conditioning.

DD-Xpand

A solid granular polymer that absorbs water and swells 50 to 100 times its size. Great as a loss circulation material when mixed with water or your drilling fluids.

DD-Xpress

An environmentally safe DSPA (dry suspended polyacrylamide). A one pail solution to drill most ground conditions, including clay. Just add water to create a powerful viscosifier and borehole stabilizer.

Sand-Xpress

An environmentally safe DSPA (dry suspended polyacrylamide). A one pail solution to drill through sands and gravels, including clay. Just add water to improve core recovery in overburden, sands or gravels. Products Mixing System Sand Drill DD-2000 Core Wrap **DD-955**



The Optimal Mixing System

The required consistency and best results will be achieved by using a two-tank mixing system.



Benefits of a Two-Tank Mixing System

General Benefits	Drilling Benefits
Recommended mixing time (12 min.)	Polymer chain unravels, creating an inhole web.
Longer and stronger chains.	Better borehole stabilization and core recovery.
Drilling cycle consistency.	Eliminate the necessity of continual mixing.
No residual on bottom of the tank.	Less product required and no waste.
Usable pill tank if required.	Prepare a special mix in case of emergency.



Consistency

Keeping consistency when mixing the fluids will allow Matex polymer chains to create a strong web, optimizing hole stabilization and core recovery.



Mixing System Sand Drill DD-2000 Core Wrap **DD-955**



Sand Drill

Encapsulating and penetrating both the core and the borehole walls.



Torqueless + Sand Drill

Addition	Product	Dosage (for 1,000 L)	Mixing Time	Results
1st	Soda Ash/pH 10 • Add to a tank half full of water	1 L	1 min.	pH of 8-10
2nd	 Torqueless Pre-mix with dry products and re-fill the tank 	4 L	12 min.	12 min. 42-45 sec. Viscosity
	Sand Drill	2 L		,



Sand Drill DD-2000 Core Wrap DD-955



DD-2000

Imparting excellent viscosity yield for removal of cuttings and borehole stability.



Torqueless + DD-2000

Addition	Product	Dosage (for 1,000 L)	Mixing Time	Results
1st	Soda Ash/pH 10 • Add to a tank half full of water	1 L	1 min.	pH of 8-10
2nd	 Forqueless Pre-mix with dry products and re-fill the tank 	2 L	12 min. 42-60 sec. Viscosity	
	DD-2000	1 L		



Core Wrap DD-955

DD-2000



Core Wrap

Wrapping the core sample to maximize recovery while stabilizing the borehole.



Torqueless + Core Wrap

Addition	Product	Dosage (for 1,000 L)	Mixing Time	Results
1st	Soda Ash/pH 10 • Add to a tank half full of water	1 L	1 min.	pH of 8-10
2nd	 Torqueless Pre-mix with dry products and re-fill the tank 	2 L 12 min. 42-60 st	42-60 sec. Viscosity	
	Core Wrap	1 L		



Core Wrap

DD-955



DD-955

Inhibiting swelling clays to prevent in-hole damage and mud rings.



Torqueless + DD-2000 + DD-955

Addition	Product	Dosage (for 1,000 L)	Mixing Time	Results
1st	Soda Ash/pH 10 • Add to a tank half full of water	1 L	1 min.	pH of 8-10
2nd	 Torqueless Pre-mix with dry products and re-fill the tank 	2-4 L	12 min	min. 42-60 sec. Viscosity
2114	DD-2000	1-2 L	12	
	DD-955	0.5-1 L		



DD-955



Viscosi	ty Control a	and Core Reco	overy	
DD-2000 S Torqueless: 2-4 L To DD-2000: 1-2 L S Viscosity: 42-60 sec. Visco	Sand Drill orqueless: 2-4 L and Drill: 1-2 L cosity: 42-60 sec.	Ultravis Torqueless: 2 L Ultravis: 2-4 L Viscosity: 42-60 sec.	Core Wrap Torqueless: 2-4 L Core Wrap: 1-2 L Viscosity: 42-60 sec.	
Core Recove (Sa	ry for Unco and, Gravel	onsolidated Fo , Overburden)	ormations	
Sand Drill Torqueless: 2-4 L Sand Drill: 1-2 L Viscosity: 42-60 sec.		Sand-Xpress Sand-Xpress: 3 L Viscosity: 42-45 sec. Add more if required.		
Lubricant and Torque Reduce	r	Loss Circulation and Plug Material		
Torqueless Torqueless: 2-4 L Dry Polymer: 1-2 L Viscosity: 42-60 sec.	DD-Xp DD-Xpand F	DD-Xpand DD-Xpand Fine: Add 1/2 kg into the mixing tank. DD-Xpand Coarse: Mix it with your drilling fluid and w Pump the pill down the rods and wait.		
Clay Inhibitor	Flui	Fluid Thinner and Dispersant		
DD-955 Torqueless: 0.5-2 L Swelling Clays: 0.25-1 L Add anytime.	. Pu an	DD-605 Mix a pill of 0.5-1 L per 1,000 L of water. Pump pill down the rods to problem area and let sit for approximately 15 minutes. Then continue recirculating.		
All-i	n-One Pail	Solution DSP/	A	
DD-Xpress DD-Xpress: 3 Viscosity: 42-45 Add more if requ	S L sec. uired.	Sand-X Sand-X Viscosity: Add more	Xpress press: 3 L 42-45 sec. if required.	
* Dosages are formulate ** For optimum performa *** Always pre-mix Torque **** Always mix liquid poly ***** Mix for at least 12 min	ed for a 1,000 L wat ince, pH of water sl eless with dry polyr mers with water pr utes.	ter tank. nould be 8-10 before intr ners and add to a tank h ior to the introduction of	roducing drilling fluids. alf full of water. Torqueless.	



Polymer Selection Chart



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