



EUCLID CHEMICAL

DURAL MUD LOCK

HYDROPHOBIC POLYURETHANE SOIL STABILIZER

DESCRIPTION

DURAL MUD LOCK is an ultra low viscosity, hydrophobic, polyurethane grout that is injected into unstable soils and sands to help solidify and stabilize various earthen structures. DURAL MUD LOCK reacts with ground moisture to encapsulate loose particles and forms a solid, stable mass. DURAL MUD LOCK can also be topically applied to soils, which will help stabilize and firm up areas that would be loose under footing. DURAL MUD LOCK is resistant to typical contaminants located within soils. This includes gas, oils, mildly acidic agents, and other biological elements.

PRIMARY APPLICATIONS

- Hillsides
- Excavations
- Seawall repairs
- Shoring and piling projects
- Embankments
- Pavement sub-base reinforcement
- Mines & tunnels
- Topical application to trails and pathways

FEATURES/BENEFITS

- Super low viscosity for deep penetration
- Adheres large and fine particles together
- Safe for surrounding environment
- Needs very little water to react
- Freeze/thaw resistant

TECHNICAL INFORMATION

TYPICAL PROPERTIES - LIQUID	RESULTS	TEST METHOD
Viscosity @ 77°F (25°C)	50 cps	ASTM D1638
Specific Gravity	1.17	-
Physical State	Liquid	-
Color	Amber	-

TYPICAL REACTION PROFILE		
AQUACCELERATOR PERCENTAGE	0%	2.5%
Initial Foam	10 to 15 minutes	2 to 3 minutes
Reaction Time	20 to 25 minutes	4 to 5 minutes

PACKAGING/YIELD

DURAL MUD LOCK is packaged in 5 gal (19 L) pails and 55 gal (208 L) drums. DURAL AQUACCELERATOR is packaged in 1 pint (0.47 L) cans and 5 gal (19 L) pails. DURAL PUMP RINSE is packaged in 5 gal (19 L) pails.

SHELF LIFE

1 year in original, unopened container

DIRECTIONS FOR USE

Mixing: For soil stabilization projects, typically an accelerator is not used. **Important:** It is more beneficial to allow the material to soak further into the soil before it sets, rather than having a catalyst react the material before it can fully penetrate. If there is a need to mix an accelerator into DURAL MUD LOCK, mix in the recommended amount of DURAL AQUACCELERATOR according to the chart below.

<u>DURAL MUD LOCK</u>		<u>DURAL AQUACCELERATOR</u>	
Package Size	Standard Amount	Minimum	Maximum
5 gal (19 L) Pail	16 oz. (0.47 L)	8 oz. (0.24 L)	32 oz. (0.94 L)
55 gal (208 L) Drum	1.25 gal (4.75 L)	80 oz. (2.4 L)	2.5 gal (9.5 L)

For most applications, the reaction will occur underground, so visual inspection of this reaction will be difficult. Do not add more than the maximum amount of DURAL AQUACCELERATOR, or the grout will face a greater risk of shrinking, thus allowing some loose soil to free up from the bound mass.

Placement: Placement techniques vary for this application due to variations in soil type and content, compaction of the ground, amount of water/moisture present, and temperature. Injection rods are placed into the ground at predetermined spacing. To ensure the DURAL MUD LOCK will react appropriately, introduce water into the soil through the injection rods. Follow up by injecting DURAL MUD LOCK into the soil through the rods by means of a single component, airless pump. Track the flow and progress of the DURAL MUD LOCK as the reacted foam will appear out of adjacent injection rods. Move the injection equipment around accordingly to ensure the entire area is injected. Once the entire area is completed, the injection rods can be snapped off and any subsequent work can begin.

CLEAN-UP

Use all appropriate protective equipment. Avoid contact with the active grout. Use DURAL PUMP RINSE to clean out the lines of the injection equipment. DURAL PUMP RINSE can then be left in the lines as a primer, prior to the next project. Be sure to expel all DURAL PUMP RINSE from the lines prior to the next grouting job, for it will drastically affect the curing capability of the grout.

PRECAUTIONS/LIMITATIONS

- Do not allow product to freeze.
- Colder temperatures will affect the viscosity and setting times of the product.
- Avoid exceeding 90°F (32°C) when warming product.
- Store material in moisture free packaging. Atmospheric moisture may get to product causing a foam “head” inside of pail. This can be peeled off and the material below is still usable.
- In all cases, consult the Safety Data Sheet before use.

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