**SAND SEALANT/MULTI-SEAL**

**COMBINATION SLURRY FLUID LOSS MIXTURE**

**DESCRIPTION**

By combining two fluid loss additives together a solution was developed for controlling slurry fluid loss in drilled shafts. SAND SEALANT a specially blended dry powdered mineral and MULTI-SEAL a dry select blend of four types of materials a flake material, a granular material, a fine fibrous material, and coarse fibers used for fluid loss control. SAND SEALANT/MULTI-SEAL added to a hole filled with SHORE PAC slurry, reduces slurry seepage into saturated open porous permeable cobbles, sands, and gravels.

SAND SEALANT/MULTI-SEAL recipe is mixed next to the drilled shaft in proportions listed below to ensure maximum effectiveness as a plugging agent. SAND SEALANT/MULTI-SEAL is designed to hold drilled shafts open overnight preventing slurry fluid loss. A powdered solid, SAND SEALANT, and MULTI-SEAL, a dry blend of four types of materials, is highly recommended as an additive to SHORE PAC when drilling in gravel, cobble, and loose saturated sands.

**RECOMMENDED USE**

Unconsolidated or highly permeable formations, natural fractures or voids, induced or created fractures, and of course the cavernous types that are the most troublesome and expensive loss zones. SAND SEALANT/MULTI-SEAL is added to the base SHORE PAC drilling slurry to increase excavation stability by controlling fluid loss in cobble, gravel, and sand formations.

**ADVANTAGES**

- Assists holding excavations open for extended periods
- Will not change skin friction qualities of SHORE PAC slurry
- Does not interfere with natural gravity settling of solids
- Works in saltwater as well as freshwater conditions
- Reduces fluid seepage in porous granular soils

**CHARACTERISTICS**

Appearance: SAND SEALANT gray powder. MULTI-SEAL dry reddish fibrous blend.

**MIXING AND APPLICATION**

Equipment Needed: 32 gallon heavy duty plastic trash can, ½ inch drill with long mud mixer drill bit, and an electric power cord to reach hole. Set-up and mix directly next to the hole.

(1) First add 30 gallons water or slurry into 32 gallon trash can
(2) Add ½ bag SAND SEALANT and begin to mix
(3) Add ½ bag MULTI-SEAL and continue to mix with a ½ inch drill and long mud mixer bit until you have a thick oatmeal consistency
(4) Pour entire mix into hole in one slug with drill tool out of the hole
(5) Continue drilling. Add immediately when experiencing fluid loss

**PACKAGING**

50 lb (22.7 kg) pails, 36 pails per pallet. All pallets are plastic-wrapped.