



BAROID EZ-SEAL®

One Sack Grouting and Plugging Material



Description EZ-SEAL® one-sack granular bentonite product is intended for use as an easily mixed grouting and plugging material.

Applications/Functions *The use if EZ-SEAL bentonite assists or promotes the following:*

- Sealing or grouting of plastic and steel casings
- Plugging abandoned boreholes and filling earthen cavities
- Grouting of loops for ground source heat pumps
- Reduction of lost circulation
- Stabilization of broken and unconsolidated formations

- Advantages**
- One-sack product
 - Easy to mix and apply, just add fresh water
 - Flexibility in application rate and grout set time
 - Good structural integrity
 - Low permeability
 - No heat of hydration
 - Minimal depletion of grout level after emplacement
 - NSF/ANSI Standard 60 certified

Typical Properties

Appearance	Bluish-tan granules
Volume, ft ³ /sack	0.70
Thermal conductivity, btu/hr ft °F (watts/meter °C)	0.41 (0.70)
Permeability, cm/sec	1.0 x 10 ⁻⁹

Recommended Treatment Add one 50-lb (22.7 kg) sack of EZ-SEAL material to appropriate amount of make-up water to obtain the desired solids content:

% Solids grout	15	20	23
Water, gallons	33	24	20
Water, liters	125	91	76
Yield volume, gallons	35.3	26.3	22.3
Yield volume, liters	133.6	99.6	84.4

Recommended Treatment (continued) Once EZ-SEAL® bentonite is added to the mixing water, the slurry will have an “oatmeal consistency” containing un-yielded and partially hydrated bentonite granules. It is recommended the product be blended only long enough to gain suspension of the EZ-SEAL material. Immediately tremie the grout into place to allow the bentonite granules to hydrate and swell in situ. Do not over mix and do not use a centrifugal pump.

- Additional Information**
- The grouting material and method selected will depend upon the specific subsurface environment including all prevailing geological and hydrological factors and any existing regulatory requirements.
 - The use of bentonite may not be appropriate in environments where the formation water chemistry has a total hardness greater than 500 parts per million and/or a chloride content of greater than 1500 parts per million.
 - If questions arise regarding subsurface environments it is always best to consult your local Baroid IDP representative to determine if the Baroid product of choice is appropriate for the given conditions.

Packaging EZ-SEAL bentonite is packaged in 50-lb (22.7 kg) multiwall paper bags, containing 0.7 ft³ (0.02 m³).

Availability EZ-SEAL bentonite 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