

## IDP-381

**Cement Additive** 

| ALLIBURTON Description    | IDP-381 is a dry, free-flowing powder designed to reduce the filtration rate<br>and retard the set of Portland Cement slurries used in water well, minerals<br>exploration and construction applications. When used in conjunction with<br>Portland Cement at the recommended concentration, IDP-381 creates a<br>slurry with enhanced flow properties and improved bonding characteristics. |  |  |
|---------------------------|--|--|--|
| Applications/Functions    | Promotes the reduction of filtration rates in Portland Cement slurries   |  |  |
|                           | Delays the set of Portland Cement slurries   |  |  |
| Advantages                | Easy to use  |  |  |
|                           | No additional water requirement for additive   |  |  |
|                           | Enhances hydraulic   | Enhances hydraulic bonding characteristics of cement<br>Promotes additional working and placement time   |  |
|                           | Promotes additional  |  |  |
| <b>Typical Properties</b> | Appearance   | White to gray powder   |  |
|                           | Specific gravity   | 2.5  |  |
|                           | • pH   | 11.8 (1% solution)   |  |
| Recommended<br>Treatment  | Approximate Amounts of IDP-381<br>Added to Develop Cement Slurries   |  |  |
|                           | Added To Make  | e-Up Water for Cement (Preferred Method)   |  |
|                           | Required Concentra<br>Portland Cement  | ation: Add 2-lbs of IDP-381 for every 94-lbs of  |  |
|                           | <ul> <li>Add IDP-381 to the appropriate volume of make-up water and mix at<br/>high shear for 2-3 minutes prior to addition of Portland Cement</li> </ul>  |  |  |
|                           |  | nt to IDP-381/Water mixture and mix at high shear etting of cement solids  |  |
|                           | Additive Dry Blended with Cement (Alternate Method)  |  |  |
|                           | Dry blend 2-lbs of IE addition of make-up  | DP-381 with each 94-lbs of Portland Cement prior to water  |  |
|                           | Dry blending should<br>of IDP-381 throughout   | l continue for 3-5 minutes to insure even dispersion<br>but the dry cement   |  |
|                           | of make-up water a   | nt blend should be added to the appropriate volume<br>nd mixed at high shear to insure efficient wetting of<br>hydration of the IDP-381 additive |  |

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| Additional Information | <ul> <li>IDP-381 is designed to be used with ASTM Type I, API Class A, ASTM<br/>Type II, API Class B, ASTM Type III or API Class C Portland Cements</li> </ul> |   |                |  |
|------------------------|--|---|----------------|--|
|                        | calculated volume of   | onal water requirement therefor<br>make-up water for the cement is<br>oment of the final slurry |                |  |
| Packaging              | IDP-381 is packaged in a 20-lb (9.1 kg) resealable plastic bucket containing 10 airtight sealed plastic bags. Each bag contains 2-lb (0.91 kg).                |   |                |  |
| Availability           | IDP-381 can be purchased through any Baroid Industrial Drilling Products<br>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<br>Product Service Line, Halliburton<br>3000 N. Sam Houston Pkwy E.  |   |                |  |
|                        |  |   |                |  |
|                        |  |   |                |  |
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|                        | Customer Service   | (800) 735-6075 Toll Free  | (281) 871-4612 |  |
|                        | Technical Service  | (877) 379-7412 Toll Free  | (281) 871-4613 |  |