

**DUAL DEFOAMER**

**APPLICATION**

- Prevents air entrainment
- Eliminates surface foaming
- Primary Cementing
- Squeeze
- Plug and Abandonment

**BENEFITS**

- Consistent performance
- Aids in pump efficiencies
- Ensures homogenous slurry density
- Economical
- No additional on the fly liquid defoamers needed
- Dry blend or pre-hydrate

**FEATURES**

- Typical loadings: 0.1-0.3%
- Compatible with all additives
- No effect on slurry properties

**PHYSICAL PROPERTIES**

<b>APPEARANCE</b>	White powder
<b>TYPE</b>	Proprietary
<b>PRE-HYDRATE</b>	YES

**SAFETY & HANDLING**

<b>WHMIS</b>	Not controlled
<b>TDG</b>	Non-regulated
<b>PACKAGING</b>	25 kg bags

**DESCRIPTION**

Excess foaming during the mixing of cement can cause problems in reading the true density of the slurry on surface and create operational pump problems due to entrained air causing pump cavitation. Foaming can be caused by cold mix water temperature, pump shear and certain chemicals used in cementing. Defoamers are necessary to ensure a homogenous cement slurry is placed in the wellbore and performs as designed.

ScottCo's Dual Defoamer uses a proprietary dispersion of chemicals and particulate to prevent foaming caused by certain cement additives, water temperature and air entrainment due to mix energy.

Dual defoamer is highly effective as it chemically changes the surface tension of water so it will not support foam and it prevents air entrainment by mechanically breaking the internal foam structure.

**TECHNICAL DATA: Slurry Density Recovery Index**

BLEND	DENSITY	Additives %			Density Recovery	%
		PVA	SMS	Dual Defoam		
0-1-0 G	1900	0.5	0	0.1	1900	100.0
1:1:0 G	1740	0.6	0.25	0.2	1735	99.7
1:1:0 C	1500	0.6	1.5	0.3	1487	99.0

**Procedure:** Dual Defoam treated cement was mixed using 15°C water, polyvinyl alcohol and sodium metasilicate as a known culprits of foaming issues. After high shear blending density was measured using a non-pressurized mud balance.