P-F400L

CEMENTING SERVICE BULLETIN

08/04/12

P-400L (PETROCHEM – HIGH TEMPERATURE FLUID-LOSS LIQUID)

TECHNICAL DATA

P-F400L is a liquid high temperature fluid loss additive intended for use at BHCT between 180°C or <400°F of which is to be pre-dissolved in the mix water. The concentration range is generally between 0.2 to 1.0 gal/sk.

P-F400L was originally intended for use in cement slurries with a high concentration of salt ranging from 18 % BWOC up to saturation. However, P-F400L may be used in cement slurries containing low concentration of salt or in fresh water but high viscosities are encountered while mixing.

Most retarders have an adverse effect on P-F400 fluid-loss control and therefore the best fluid-loss results are achieved in slurries which do not contain any retarder.

For example, when a salt cement slurry is prepared without a retarder, a fluid loss value of 20 ml/30 min is achievable, but when a salt cement slurry is prepared with a retarder 200 ml/30 min may be very difficult to achieve. However, by increasing the concentration of P-F400L good fluid loss control can be achieved even in the presence of a retarder.

P-F400L has little retarding effect on the setting time. The recommended retarders for use with P-F400L are: P-LTR, P-LTRL, P-HTR2, P-HTRL, and P-SRL. However, the retarders with the least effect on fluid-loss control is: P-SRL and P-HTD.

When high concentrations of P-F400L is used in conjunction with 35% P-SF (325 mesh silica flour) BWOC, mixing difficulties will occur. Therefore, it is recommended to use P-SS (200 mesh silica flour) which will generally improve the fluid-loss value of the slurry. If settling is experienced with the P-SS, it is worthwhile considering a mixture of P-SF and P-SS.

P-F400L can be used in combination with all Petrochem dispersants but care must be taken to avoid settling caused by over dispersion. This may be due to the secondary dispersing effect of retarders, and/or the thinning effect on P-F400L slurries at high temperatures.

PETROCHEM USA, INC.
4111-D N.W. 132ND ST, OPA LOCKA, FL. 33054 U.S.A.
TEL: (305) 685-8282, FAX: (305) 685-9339, E-MAIL: info@petrochem.us

When P-F400L is used in high salt concentration the preferred Antifoam agent to use is "P-DFL", and when used in low salt concentration "P-AFAL" may be used.

When P-F400L is added to the mix water, generally the best results are had when the salt (if being used) and the Antifoam agent are added to the mix water before pre-dissolving the P-F400L.

PRODUCT	FORM	SP.GR.	PACKAGING
P-F400L	YELLOW LIQUID	1.1	55 GAL/DR

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