PRODUCT INFORMATION

QUANTEC® PL-490

Concentrated Plasticizer

Description

QUANTEC® PL-490 concentrated plasticizer is specially formulated for use in the production of low slump concrete products. It is used in the manufacture of concrete block, pipe, roof tile and other low slump concrete products where a smoother, denser surface with a light swipe is preferred.

QUANTEC PL-490 is light brown in color and is supplied as a liquid concentrate. It may be dispensed as a concentrate or in diluted form.

Product Uses

QUANTEC PL-490 may be used in all zero or low slump concrete to increase workability while retaining cohesiveness, and to provide for more complete hydration of the cement. QUANTEC PL-490 is intended primarily for use in mixes for concrete masonry units and may be used in concrete pipe, concrete roof tile, and other low slump concrete products.

The mixes designed for low slump concrete products are characteristically dry, containing minimal water. Additional water would be desirable to allow for complete hydration of the cement and improve mix cohesiveness. However, an increase in water content is impractical from a production standpoint. A very low or zero slump is necessary for dimensional stability

of the units upon removal from the mold. The use of QUANTEC PL-490 will compensate for the water deficiency in such mixes. QUANTEC PL-490 is a plasticizer which improves the dispersion of the cement throughout the mix as well as improving the workability of the mix along with increased green strengths, which together can improve machine efficiency.

The increased workability achieved with QUANTEC PL-490 allows for better compaction of the block with less cracking and sharper corners and edges, resulting in fewer culls. Production can be improved while maintaining a smoother, denser surface with a light swipe.

Application Information

Addition Rates:

QUANTEC PL-490 is supplied as a concentrate and may be dispensed in that form using the proper dispenser. As a concentrate, QUANTEC PL-490 is used at the rate of 13-32.5 mL/100 kg (0.2-0.5 fl oz/100 lbs) of cementitious material (cement, fly ash, microsilica or other pozzolan in the mix). If desired, QUANTEC PL-490 may also be used in diluted form. It is recommended that it be diluted one part QUANTEC PL-490 to ten parts water. Put 114 L (30 gal) of water in a 208 L (55 gal) drum, add 19 L (5 gal) of QUANTEC PL-490. Then, fill the remainder of the drum with water and mix well. Use this solution at a dosage rate of 195-455 mL/100 kg (3-7 fl oz/100 lbs) of cementitious material in the mix.

Product Advantages

- Light swipe
- Increased throughput
- Sharper corners and edges
- Fewer culls
- Cost effective
- Smoother, denser surface
- Better compaction
- Improved green strengths

Dispensing Equipment:

A complete line of equipment is available to dispense QUANTEC PL-490 either as a concentrate or in diluted form.

Packaging:

QUANTEC PL-490 is available in 208 L (55 U.S. gal) drums weighing 240 kg (530 lbs) and 1,250 L (330 U.S. gal) returnable totes weighing 1,392 kg (3,070 lbs).

Health & Safety:

All precautions defined on the MSDS (Material Safety Data Sheet) for QUANTEC PL-490 must be followed.

Storage:

QUANTEC PL-490 will freeze, but it will return to full effectiveness after thawing and mechanical agitation.



Web Visit our web site at: www.graceconstruction.com

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