

QUANTEC[®] PL-400 Data Sheet

Plasticizing Admixture

Product Description

QUANTEC[®]PL-400 is a specially formulated plasticizing admixture using the latest dispersant technologies on the market. QUANTEC[®]PL-400 is designed for use in the manufacture of machine produced concrete products where the process requires zero or very low slump concrete. QUANTEC[®]PL-400 is supplied as a ready-to-use liquid.

Product Advantages

- Increased strength
- Faster cycle times
- Reduced cracking and crazing
- Increased density
- Lower absorption

Product Uses

QUANTEC[®]PL-400 may be used in all zero or low slump concrete to increase workability while retaining cohesiveness. QUANTEC[®]PL-400 is intended for use in concrete block mixes, but it is also beneficial if used in concrete pipe, concrete pavers, concrete tile and concrete brick. The increased workability provided by QUANTEC[®]PL-400 allows for better compaction of the concrete with less cracking and crazing and sharper corners and edges, resulting in fewer culls. Production can be increased, absorption reduced, and appearance and surface characteristics greatly improved.

QUANTEC[®]PL-400 is a dispersing agent designed to provide a modest swipe finish. By dispersing the cement and aggregate fines, it improves the workability of the mix. Dispersion of the cement results in more complete hydration, and consequently, greater strength for any given cement content.

Application Information

QUANTEC[®]PL-400 is compatible with other admixtures, but when multiple admixtures are used they must be added separately to the mix.

Addition Rates

QUANTEC[®]PL-400 is generally used at a rate of 2–6 fl oz/100 lb (130–390 mL/100 kg) of cementitious materials. The addition rate is dependent upon the specific set of materials and the desired end properties.

Mixing Procedure

QUANTEC®PL-400 is typically added separately to the mix either on prewetted aggregates or after the addition of the final mix water. Once QUANTEC®PL-400 is batched, it should be mixed for a minimum of one minute, but preferably two minutes. Never add QUANTEC®PL-400 to dry cement. Testing with local materials and production equipment is necessary to determine the end results.

Dispensing Equipment

A complete line of admixture dispensing equipment is available.

Packaging

QUANTEC®PL-400 is available in 55 U.S. gallon (208 L) drums and 275 U.S. gallon (1,040 L) returnable totes.

Health & Safety

All precautions defined on the SDS (Safety Data Sheet) for QUANTEC®PL-400 must be followed.

Storage

QUANTEC®PL-400 will begin to freeze at approximately 32°F (0°C), but will return to full strength after thawing and thorough agitation. Do not use pressurized air for agitation

North America customer service: 1-877-4AD-MIX1 (1-877-423-6491)

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