

QUANTEC[®] PL-503

Plasticizer for Low-Slump Concrete

Product Description

QUANTEC[®]PL-503 is a specially formulated admixture for use in the manufacture of machined concrete products where the process requires zero or very low slump concrete.

Product Advantages

- Better compaction
- Increased strength
- Faster cycle time
- Smoother, denser surface
- Reduced cracking and crazing
- Increased plasticity in mix

Product Uses and Benefits

QUANTEC[®]PL-503 may be used in all zero or low slump concrete to increase workability while retaining cohesiveness.

The use of QUANTEC[®]PL-503 will compensate for the water deficiency in such mixes, and improve the workability of the mix.

Additionally, QUANTEC[®]PL-503 has also been specially formulated to provide longer working life of the mix relative to similar admixtures. Benefits of this extended workability include less cleaning time and fewer negative impacts of higher summer temperatures.

Compatibility

QUANTEC[®]PL-503 should not be premixed under any circumstances with other admixtures. The performance of the product will be affected by the presence of other chemicals and we recommend that GCP Applied Technologies be consulted in such circumstances.

We recommend that all admixtures be added separately into the mix.

Method of Use

QUANTEC[®]PL-503 is supplied ready for use. When adding QUANTEC[®]PL-503 in the factory, we recommend the dosage together with the gauging water or as the last component. The mixing time after dosage of the agent depends on the mixing energy, whereas a minimum mixing time of 60 seconds must be followed.

Addition of any other chemical admixture should be undertaken separately.

Addition Rates

Recommended Range:

200 ml–1500 ml per 100 kg cement 0.2%–1.50% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with QUANTEC®PL-503 is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

It is therefore necessary to assess performance under site conditions using actual materials to determine optimum performance and dosage.

For advice and assistance with trials we recommend that you consult GCP.

Health and Safety

For further information we recommend that you consult the SDS or contact GCP.

Packaging

QUANTEC®PL-503 is supplied in returnable totes, or non-returnable drums. Bulk deliveries can also be arranged upon request.

Storage

QUANTEC®PL-503 should preferably be stored away from extremes of cold or heat. The product should be kept in shaded storage at all times.

Storage Life in Manufacturer's Drums:

12 months from the date of manufacture.

Storage Life in Bulk Storage: 12 months from date of manufacture.

Technical Data QUANTEC® PL-503

Appearance	clear – yellowish
Form	Liquid
pH at 20 °C	4,5 +/- 1,0
Density at 20 °C (g/cm³)	1,02 +/- 0,02
Solid content at 105 °C (%)	11,0 +/- 1,0

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