

# QUANTEC<sup>®</sup> PL-466

Plasticiser for low slump concrete products

---

## Product Description

QUANTEC<sup>®</sup>PL-466 is a specially formulated admixture for use in the manufacture of machined concrete products where the process requires zero or very low slump concrete and where a smoother, denser, surface finish with a swipe is desirable. QUANTEC PL-466 is supplied as a chemically formulated ready-touse liquid. Its low viscosity, approximating that of water, ensures accurate and rapid dispensing.

## Applications

QUANTEC PL-466 may be used in all zero or low slump concrete to increase workability while retaining cohesiveness. QUANTEC PL-466 produces the rich smear required for a smooth, swipe finish. QUANTEC PL-466 is intended for use in lightweight and normal weight concrete block mixes and may be beneficial if used in concrete pipe, concrete pavers, concrete tile and concrete brick.

The mixes designed for these products are characteristically dry, containing only sufficient water for the hydration of the cement. Additional water would be desirable to improve workability and to compensate for any loss in water which would result in incomplete hydration and lower strengths, 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 form. The use of QUANTEC PL-466 will compensate for the water deficiency in such mixes. QUANTEC PL-466 is a dispersing agent designed to provide a 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. Addition of QUANTEC PL-466 can increase the compressive strength of the block at the same cement content

The increased workability provided by QUANTEC PL-466 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.

## Product Advantages

- Increased strength
- Faster cycle time
- Smoother, denser surface
- Reduced cracking and crazing
- Increased plasticity in mix
- Sharper corners and edges
- Fewer culls
- Reduced shrinkage
- Cost effective

## Addition Rates

QUANTEC PL-466 is used at the rate of 130 to 325mL / 100kg of cementitious material in the mix.

## Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

## Packaging and Storage

QUANTEC PL-466 is available in 205L drums and 1,000L totes. QUANTEC PL-466 will begin to freeze at approximately 0°C, but will return to full strength after thawing and thorough agitation. Do not use pressurised air for agitation.

## Health and Safety

All precautions defined on the Material Safety Data Sheet for QUANTEC PL-466 must be followed.

[gcpat.com.au](http://gcpat.com.au) | Australia customer service: 1800 855 525

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

QUANTEC is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies, Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2017 GCP Applied Technologies, Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Australia Pty. Ltd., 14 Colebard Street West, Archerfield, Brisbane, Queensland 4108, Australia

This document is only current as of the last updated date stated below and is valid only for use in Australia. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [www.gcpat.com.au](http://www.gcpat.com.au). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2025-05-13

[gcpat.com.au/solutions/products/masonry-and-hardscape-solutions/quantec-pl-466](http://gcpat.com.au/solutions/products/masonry-and-hardscape-solutions/quantec-pl-466)