

# QUANTEC<sup>®</sup> PL-468

## Product Description

QUANTEC<sup>®</sup>PL-468 is a low dosage, higher performance plasticiser specifically formulated for use with vibration intensive, rapid de-mould mix processes.

QUANTEC<sup>®</sup>PL-468 gives optimum workability and compaction under intense vibration, while maintaining mix cohesion and dimensional stability of the demoulded product.

QUANTEC<sup>®</sup>PL-468 combines the effects of a powerful dispersing action with a cohesion aid to produced optimum results from the vibration/compaction cycles found in block, brick and tile manufacturing processes. This ensures that the cement is more evenly distributed, maximising hydration and strength potential, producing a denser, stronger unit with a more uniform texture with a smoother cement rich appearance.

QUANTEC<sup>®</sup>PL-468 is formulated from a carefully selected blend of both synthetic and naturally derived raw materials and is manufactured under carefully controlled conditions, to produce a highly consistent product.

## Advantages

- Increased strengths (15% - 30%)
- Reduced curing period / steam curing costs
- Improved responsiveness to vibration
- Faster production cycle
- Improved surface finish and texture
- Sharper edge detail
- Reduced breakage rate
- Improved colour uniformity – especially pigmented mixes
- Better cement economies (of 10-25%) at same or better strength

## Typical Properties

Appearance	Light amber liquid
Specific Gravity (20°C)	1.019
Air Entrainment	Minimal in semi-dry
Freezing Point	0°C

## Typical Uses

- Concrete blocks - including natural/light weight or artificial aggregates, in both static/mobile production systems - air cured, steam cured, autoclaved
- Concrete brick presses
- Paving block production
- Concrete tile manufacture
- Most concrete/cementitious systems involving low workability mixes and vibration intensive/press production methods

## Method of use

QUANTEC®PL-468 is supplied ready for use and should be added to the mix at the same time as the mix water. QUANTEC®PL-468 may be used in all zero or low slump concretes where improved compaction is beneficial.

Overdosing in semi-dry mixes will yield a more plastic mixture, resulting in problems with edge slumping of cast masonry units or slight retardation of set and strength development.

## Addition Rates

Range	125 ml - 325 ml per 100 kg cement
For best results, it is recommended that QUANTEC® PL-468 performance first be assessed in preliminary tests using the actual mix constituents. This will help determine the optimum dosage.	
For advice and assistance with trials we recommend that you consult GCP Applied Technologies.	

## Compatibility

### With Cements:

QUANTEC®PL-468 can be used with all types of Portland cement, including cement replacement materials.

For use with special cements we recommend that you consult GCP Applied Technologies.

### With Other Admixtures:

QUANTEC®PL-468 should not be pre-mixed with other admixtures to addition to the mix. The performance of the admixture may be affected by the presence of other chemicals, and we recommend that GCP be consulted in such circumstances.

## Dispensing

It is preferable that liquid admixtures for concrete should be introduced into the mixer by means of automatic dispensing equipment.

## Packaging

QUANTEC®PL-468 is supplied in 205 litre non-returnable containers.

Alternatively, bulk deliveries can be arranged.

## Storage

QUANTEC®PL-468 should be stored above 0°C and protected from frost.

### Storage Life in Manufacturer 's Drums:

12 months from date of manufacture.

### Storage Life in Bulk Storage:

12 months from date of delivery.

## Health and Safety

For further information on Health and Safety matters regarding this product we recommend that you consult the relevant Material Safety Data Sheet from GCP.

In line with general chemical handling precautions avoid contact with skin or eyes and protective gloves/goggles should be worn.

## Technical Service

Our Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our performance chemicals.

gcpat.uk | United Kingdom customer service: +44 (0) 1925 855330 Fax: 01925 855350

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