

# QUANTEC<sup>®</sup> XL-540

## Product Description

QUANTEC XL-540 is a chloride based accelerator which produces more rapid set and early strength gain characteristics.

QUANTEC XL-540 is suitable for use in light precast production where reductions in setting time may be beneficial.

QUANTEC XL-540 is intended for use in block mix concretes, and in low slump concrete systems involving vibro-compression and instant de-moulding.

QUANTEC XL-540 is manufactured under carefully controlled conditions, to produce a highly consistent product. This admixture is not suitable for mixes/ products that will contain embedded metals.

## Advantages

- Accelerated strength gain
- Increased strengths (15% - 40%)
- Reduced curing period/steam curing costs
- Faster production cycle
- Reduced breakage rate
- Improved cement economies at same or better strength

## Typical Properties

Appearance	Pale straw liquid
Specific Gravity (20 °C)	1.36
Air Entrainment	Minimal in semi-dry
Chloride Content	22% by weight of admixture
Freezing Point	0°C

## Method of use

QUANTEC XL-540 is supplied ready for use and should be added to the mix after the addition of the cementitious component, at the same time as the mixing water.

Overdosing in semi-dry mixes will yield a more plastic mixture. This could result in edge slumping of cast masonry units and a significant reduction in usable life and setting time, with higher early strengths.

## 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
- Extruded concretes
- Concrete tile manufacture
- Most concrete/cementitious systems involving low workability mixes and vibration intensive/press production methods – but not containing embedded metals workability mixes and vibration intensive/press production methods

## Addition Rates

Range	1600 ml – 3200 ml per 100 kg cement
For best results, it is recommended that QUANTEC XL-540 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 XL-540 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 XL-540 should not be pre-mixed with other admixtures prior 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 XL-540 is supplied in 205 litre non-returnable containers.

Alternatively, bulk deliveries can be arranged.

## Storage

QUANTEC XL-540 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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