

## Description

Optomix A61 is a specially formulated blend of stabilised surface active agents designed to entrain controlled and stable quantities of air in all mortars.

## Applications

Optomix A61 is used to entrain air in all mortars.

- Provides controlled and stable amounts of air in mortar.
- Increases durability of all mortar mixes.
- Plasticises mortar mixes.
- Improves the workability retention of retarded mortars, particularly where the use of problem sands can result in significant workability loss during the retardation period.

## Benefits

- Increased resistance to freeze/thaw cycles and de-icing salts.
- Plasticising action improves workability, cohesion and trowelling properties.
- Increased retention of mix water reduces sand/water uns and honeycombing.
- Improved bond to masonry units.
- Reduced segregation allows use of wide range of sand gradings.
- Increased yield provides economic benefits.

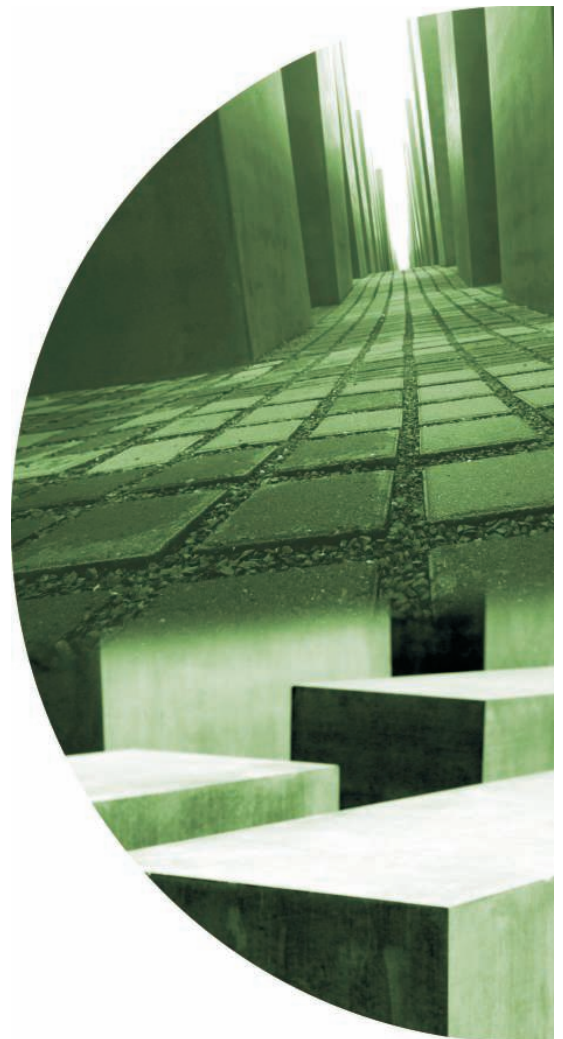
## Standards

Optomix A61 complies with BS4887 Part 1 for Air Entraining (Plasticising) Admixtures. It meets the requirements of BS4721 and will have no adverse effects on the durability of mortar, nor on any adjacent material or component.

All Christeyns products are produced in accordance with the ISO 9001:2000 Quality Management Standard and the ISO 14001 Environmental Management Standard.

## Mix Designs

Mortars should be designed to comply with the relevant tables of BS5628.



## Addition Rates

The natural variations in cements and cement replacements, aggregate types and gradings, mixer types and mix workability, all affect the dosage required for a given air content. Trials should, therefore, be carried out to determine the correct addition rate for the mix design and materials to be used. As an initial guide, an addition rate of 0.16% - 0.25% by weight of cementitious binder (0.4% - 0.7% for mixes containing lime) should produce 18% - 20% air content in fresh mortar.

Optomix A61 should be accurately measured, preferably by dispensing unit. It should be added to the mix with or immediately after the mixing water. Care should be taken to ensure the material is distributed throughout the mix.

Overdosing of Optomix A61 will result in increased air content and workability, with a reduction in compressive strength.

## Typical Properties

### Appearance

Amber Liquid

### Relative Density

1.01 gcm<sup>-3</sup> at 20°C

### Chloride Content

Nil (BS5075)

### Air Entrainment

Typically 18% - 20% depending on use

### Freezing point

0°C

## Compatibility

Optomix A61 is compatible with all Portland cement binders, including ggbs, pfa and hydrated, quick and putty limes. Optomix A61 is compatible with Optomix 42 but should be added separately to the mixer.

## Storage

Optomix A61 should be protected from extremes of temperatures, and should not be allowed to freeze. Minimum shelf life of one year provided storage temperature is within range of minus 2°C to plus 30°C. If the material freezes, it should be heated and remixed.

## Handling

Optomix A61 is a non-hazardous product, but, in line with general chemical handling precautions to avoid contact with skin and eyes, protective gloves and goggles should be worn.

Refer to the Material Safety Data Sheet for Optomix A61 for full details.

## Packaging

200 litre drums, 1000 litre IBC's and bulk deliveries.

### Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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