

## BUILD MASTER SUPER BUILD Construction Chemical

### USES

- To accelerate the stiffening and early strength gain of Portland cement concrete and mortar.
- Typical applications include concrete or mortar placed at cold weather and pre-cast concrete.

### ADVANTAGES

- Particularly effective in assisting to offset the delaying effect of low temperatures on setting and strength gain.
- Accelerated setting gives added protection against early-age frost attack.
- Also provides a degree of water reduction and increased workability.
- Suitable for use in bricklaying mortar.
- Chloride-free, safe for use in reinforced concrete.

### STANDARD COMPLIANCE

Super Build complies with ASTM C-494 as Type C and BS 5075 Part 1.

### DESCRIPTION

Super Build chloride-free accelerating admixture is supplied as a light straw-colored solution that instantly disperses in water.

Super Build accelerates the early stages of cement hydration, producing more rapid stiffening and allowing strength gain to commence at an earlier stage. This effect is particularly noticeable at low temperatures

and is most significant in the first 24 hours after mixing.

### TECHNICAL SUPPORT

Moon star provides technical advisory services for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

### TYPICAL DOSAGE

The optimum dosage of Super Build to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the concrete mix.

A starting point for such trials is to use a dosage of 200ml per bag of 50 kg of cement. However, if required higher dosage can be used. The dosage range is 0.2 to 1.5 litre / 50 kg cement.

### USE AT OTHER DOSAGES

Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact the Moon Star Technical Service Department for advice in these cases.

## PROPERTIES

Appearance	Straw coloured liquid
Specific gravity	Typically 1.30 to 1.36 at 25oC
Chloride content	Nil to BS 5075
pH	8-12.5
VOC	Zero
Water permeability	Passes
Compressive Strength / mm <sup>2</sup>	Std.
Flammable	Nil
Temperature	Min.8°C.

## INSTRUCTION FOR USE

### COMPATIBILITY

Super Build is compatible with other Moon star admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes to ensure the desired combination of effects is obtained.

Super Build is suitable for use with ordinary Portland types of cement. Contact the Moon Star Technical Service Department for advice on the use of sulphate-resisting cement and cement replacement materials.

### DURABILITY

Super Build has no detrimental effect on the protection given to embedded steel by the alkalinity of cement and is safe for use as an accelerator in situations where chloride-containing admixtures cannot be used.

### DISPENSING

The correct quantity of Super Build should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

Contact the Moon Star Technical Service Department for advice regarding suitable dispensing equipment and its installation.

### DISCLAIMER

The information given herein is based on our present knowledge and is believed to be reliable. We can't assume any responsibility since the usage conditions are beyond our control.