



ANTI – FREEZE & RAPID SETTER

Conforms with BS 5075:PART 1:1982.

DESCRIPTION

Kingfisher ANTI- FREEZE/RAPID SETTER is an additive for mortar and concrete mixes, especially formulated to increase the rate of hydration in cement to give rapid setting in very low temperature conditions or where rapid setting is essential..
It can be used at temperatures of down to minus 8°C. It can also be used as a rapid setting agent in normal conditions e.g. where fast removal of formwork is required i.e. in concrete block making.

Kingfisher ANTI- FREEZE/RAPID SETTER is supplied as a highly concentrated green liquid which has acidic properties.

THIS PRODUCT MUST NOT BE USED IN VEHICLE RADIATORS

MIXING INSTRUCTION.

When used as ANTI- FREEZE add to gauging water in the following ratios noting the temperature. (Gauging water will turn blue on mixing)

<u>EXPECTED TEMPERATURE</u>	<u>ANTI – FREEZE</u>	<u>WATER</u>
Ambient Temperature	1part	30 – 40parts
+2°C to 0°C	1 part	30 parts
0°C to -4°C	1 part	20 parts
- 4°C to -7°C	1 part	15 parts
- 7°C to -10°C	1 part	10 parts.
-10°C to -12°C	1 part	8 parts
-12°C to -15°C	1 part	6 parts
-15°C to -18°C	1 part	4 parts

Note. When deciding mix ratio remember it is the temperature after use that is important. (Consider overnight frosting)

When used as RAPID SETTER mix at the following ratios.

- 1part Rapid Setter to 40 parts Water Sets in approx. 26 minutes.
- 1part Rapid Setter to 30 parts Water Sets in approx. 20 minutes.
- 1part Rapid Setter to 25 parts Water Sets in approx. 18 minutes.
- 1part Rapid Setter to 20 parts Water Sets in approx. 15 minutes.
- 1part Rapid Setter to 15 parts Water Sets in approx. 10 minutes.
- 1part Rapid Setter to 10 parts Water Sets in approx. 5 minutes.
- 1part Rapid Setter to 5 parts Water Sets in approx. 2½ minutes.

APPLICATION

Kingfisher ANTI- FREEZE is compatible with **Kingfisher ADMIX** where improved workability is required.

- All aggregates and cement must be frost free before use.
- Not suitable for use in reinforced concrete mixes or where metal is in contact with the mass.
- Not recommended for use with sulphate resisting, rapid hardening Portland cements or high alumina cements.

HEALTH and SAFETY.

Kingfisher ANTI- FREEZE/RAPID SETTER as supplied is strongly acidic and contact with skin and eyes should be avoided.

Wear impervious gloves and eye protection when handling.

In case of contact, wash affected areas with copious amounts of clean water.

Store carefully out of reach of children and animals.

Protect from frost.

Kingfisher ANTI- FREEZE/RAPID SETTER conforms to BS 5075 : PART 1 : 1982.

For further Health and Safety information relating to this product please refer to the Kingfisher Safety Data Sheet; copies of which can be obtained from the Kingfisher Technical Dept. Tel 01229 869100 or Fax 01229 869101.