

MITCHANTI FREEZE 505

Cold Weather Concreting Admixture

DESCRIPTION:

It's a chloride free admixture in liquid form for concrete in cold weather. Its addition helps to maintain normal setting times even at low temperatures.

USES:

- Concreting at low temperatures.
- Increased frost resistance.
- Improved strengths at low ambient temperatures.
- **Mitchanti Freeze 505** does not contain chlorides or other ingredients which can cause corrosion of steel. It is therefore suitable for reinforced concrete.

APPROVAL/STANDARDS:

Conforms to the requirements of ASTM C 494, Type C

TECHNICAL DATA:

Chemical Base	Liquid, including special salts
Density	1.20 ± 0.01 Kg/Lit. (at + 20°C)
Freezing Point	< - 15°C

DOSAGE:

1 % by weight of cement (for 100 Kg cement, 1,000 g)

COMPATIBILITY:

Mitchanti Freeze 505 may be combined among others with the following products:

- Silica Fume
- Concrete admixtures

Trials are recommended before combining products.



DISPENSING:

Mitchanti Freeze 505 is added to the gauging water at the plant or added on site into the concrete mixer. When added separately to the freshly mixed concrete, further mixing should take place for at least 3 minutes. Before being

discharged, the concrete must be visually inspected for even consistency.

APPLICATION METHOD:

The standard rules of good concreting practice, concerning production as well as placing are to be followed.



CLEANING OF TOOLS:

Clean all tools and application equipment with water immediately after use. Hardened/ cured material can only be mechanically removed.

CAUTION:

When concreting in cold conditions, attention should be paid to the following important points:

- Keep form work and reinforcement free from water, snow or ice.
- If possible, instead of steel, wooden form work may be used.
- Fresh concrete temperature must be between 5°C and 15°C depending on ambient temperature and concrete thickness.
- Moisture and heat loss of concrete must be prevented by maintaining cover insulation and the concrete must be protected until concrete achieves 4-5 N/mm² strength.
- If **Mitchanti Freeze 505** freezes in the drum, thaw gradually in a heated environment (avoid direct flame contact). Once thawed all properties remain unaffected.

SHELF LIFE:

24 months from date of production if stored properly in original, unopened packaging at temperatures between - 10°C and 35°C. Protect from direct sunlight.

PACKAGING:

200 Liters. Drum

Mitchell Construction Chemicals

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NOTES:

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

TOXICITY:

Non – toxic, Non – hazardous.