

NITRO®

COLD WEATHER CONCRETE ADDITIVE



RAMKA
CONSTRUCTION
CHEMICALS

NITRO® is designed for cold weather concreting. The product combines actions of fast setting and preventing from freezing simultaneously as it accelerates the hardening of the concrete. It does not contain compounds which could cause corrosion of reinforcement

Applications

- cold weather concreting.
- Particularly suitable for concreting in the temperature range between +5 and -15°C.
- Suitable for all general repairing application particularly in cold weather.

Features

- Light to moderate swipe texture
- Cement dispersion agent
- Provides improved material flow and extrusion characteristics

Advantages / Benefits

- Accelerate the progress of the thermal reaction of cement.
- Accelerate the progress of the hydration reaction.
- Accelerate the initial setting time.
- Compatible with all types of Portland cement.
- Increase initial and final compressive strength of concrete.
- Chloride free.

Guideline for Use

Ensure that the surfaces are completely frost-free.

Remove all snow and ice from surface of forms. Surface of molds must be heated to warm up

more than 5°C.

Keep the concrete temperature over than 6°C. It's better to mix NITRO with water and then adding it to dry mix.

If you have applied ready mix concrete, NITRO should be mixed in truck.

Compatibility

NITRO is compatible with concretes containing silica fume, fly ash, or ground granulated blast or slag cement. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

Storage

should be protected from direct sunlight and frost. Keep container in the temperature range between +10°C and +35°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact RAMKA Technical Services Department.

Product Information

State	Liquid
Packaging	20KG Plastic Can / 1100KG IBC Container
Chloride Content	Does Not Contain
Appearance / Color	Transparent/Clear
Shelf Life	12 months in the original package
Storage Condition	should be protected from direct sunlight and frost. Keep container in the temperature range between +10°C and +35°C.
Specific Gravity	1.07 ±0.02 g/cm ³

Basis Of Data

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.

Precautions

Health and Safety

This product does not contain any hazardous substance to human health and the environment. However, it should not be swallowed and contacted with skin and eyes.

Rubber gloves, boots and goggles should be used during application. Accidental splashes on the skin should be washed with soap and water and any contaminated clothing removed.

Contact with eyes should be avoided and if any accidental contamination does occur they should be washed with copious amounts of water and medical attention sought.

Fire

NITRO is not flammable.

Additional Information

For additional information on NITRO admixture, consult your local sales representative.

Important Notes

The information, and, in particular, the recommendations relating to the application and end-use of RAMKA products, are given in good faith based on RAMKA's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with RAMKA's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from

any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. RAMKA reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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