

NVR

NEVA CHEM Co.

(CEMENT/CONCRETE SETTING RETARDER)

PRODUCT DATA SHEET -EDITION 01/01/2020- ID-NO. NVR-03

DESCRIPTION OF PRODUCT

NVR retarder is a highly efficient set-retarding admixture for structural and mass concrete where a controlled extension of setting time is required.

NVR retarder provides superior handling and trowelling properties, Controlled retardation depending on the addition rate and flexibility in scheduling of placing and finishing operations.

CHARACTERISTICS / ADVANTAGES

NVR is used as a retarding admixture in structural and mass concrete where a controlled extension of setting time is required, such as:

- ✓ Large volume pours
- ✓ Long hauls
- ✓ Avoidance of cold construction joints without formwork
- ✓ Elevated temperatures
- ✓ Difficult placing conditions
- ✓ NVR Retarder does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced concrete structures.
- ✓ Complies with ASTM C 494-99 type B and D.

CHEMICAL / PHYSICAL PROPERTIES

Composition: Glyceraldehydes, Amino-alcoholic compounds.
Density: 1.15 - 1.20 Kg/L
PH: 9.00 : 10.00
Boiling Point: 195 °C

PACKAGING

NVR is available in 850 liter IBC tanks of net weight 1000 Kg.

SHELF LIFE

12 Months in original, unopened container.

STORAGE CONDITIONS

Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C.

Protect from direct sunlight and frost.

APPROVALS / STANDARDS

NVR - follows the requirements of ASTM C494; Type B and D, and EN 934-2



CONSUMPTION / DOSAGE

0.50 – 1.50 % of cement mass weight. The retardation rate achieved is directly depending on the dosage rate which in turn is influenced by quality of cement, aggregates, w/c ratio and temperatures.

In many cases it is advisable to carry out trial mixes to establish the exact dosage rate required.

Rule of Thumb:

- ✓ Each degree below +20°C increases retardation time by 1 hour
- ✓ Each degree above +20°C reduces retardation time by half an hour
- ✓ An increase in water: cement ratio by 0.01 increases retardation time by half an hour

HEALTH / SAFETY

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products:

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately, if accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

CONTACT DETAILS

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Distribution

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