

Ph. 26386507, 26386392
Telefax – 26386063
E-mail- asianlab88@gmail.com

ASIAN LABORATORIES

88, D.S.I.D.C. Sheds, Scheme-I, Okhla Industrial ,Area, Phase-II, New Delhi-110020

PRODUCT INFORMATION

NR-900

Integral Corrosion Inhibitor for Concrete & Coating Materials for Steel Bars .

DESCRIPTION

NR-900 is a light yellowish liquid or powder, ready to use integral corrosion inhibitor for concrete & mortar. It can be applied on steel bars as protective coating to prevent corrosion. The mechanism for corrosion prevention by NR-900, corrosion inhibitor is that it helps to form a passive membrane on the surface of reinforcing steel. The product satisfies the requirement of M.O.S.T specification for Inhibitor Solution under Apendices 1000-1 and vide Patent No. **109784/67**. The product is recommended for use where marine sand or subsoil waters containing high soluble salts are present in concrete. Also for long life of reinforcing steel bars in concrete the protective film on the surface of the reinforcing steel prevents rusting and consequently impairs concrete durability.

THE COUNTER MEASURES SUGGESTED ARE:

- Lower the water-cement ratio as much as possible by the use of 'CEMWET -SP' Super plasticizer and make dense concrete.
- Place concrete precisely in accordance with specification as well as to increase protective covering.
- Use good corrosion inhibitor- NR-900.
- Finish concrete surface carefully to make it dense.

BENEFITS

- Integral Corrosion inhibitor, highly effective for preventing rust.
- It works for long period of time.
- Workability, Strength and quality of concrete are not affected.
- Its rust preventing effect is greatly improved.

APPLICATION FOR CONCRETE

- NR-900** is added to concrete mix at the point of use along with cement, sand, aggregate and water. The dosage of 1% of NR-900 by weight of cement or 500gms/bags of cement (50Kg) is adequate.
- For Steel bars : 600gm of NR-900 with 1 Kg of cement to be added and stir it properly. The apply with a brush on steel bars.
- For Dip Application of Steel Bars the details can be had on request

COVERAGE : 3 to 3.5 Sq.Meter per Kg of NR-900 on steel surfaces.

PACKING : In steel barrels of 220kg. Net Weight.

ADVANTAGES : No solvent, No fire hazard, Odourless, Non-toxic.

STORAGE :Unlimited shelf-life when stored in well sealed containers in frost-free condition

Consumption of NR-900 on Tor Steel bars.

A. 32mm Tor Steel.

32 mm Tor Steel of 11 Mtr. Length Weight = 80KG
therefore Area of Bar = 1.106 Sq.Mtr / 80Kg
therefore Total Area Per M.Ton = 13.83m²
Hence Consumption = 4.60 Kg/M.Ton

B. 25mm Tor Steel.

25mm Tor Steel of 11 Mtr Length Weight = 45Kg
therefore Area of Bar = 0.8642 Sq.Mtr / 45Kg
therefore Total Area Per M.Ton = 19.2m² / M.Ton
Hence Consumption = 6.4 Kg/M.Ton

C. 20mm Tor Steel

25mm Tor Steel of 11 Mtr Length Weight = 30Kg
therefore Area of Bar = 0.691 Sq.Mtr / 30 Kg
therefore Total Area Per M.Ton = 23.05m² / M.Ton
Hence Consumption = 7.72 Kg/M.Ton

D. 16mm Tor Steel.

16mm Tor Steel of 11 Mtr Length Weight = 20Kg
therefore Area of Bar = 0.553 Sq.Mtr / 20 Kg
therefore Total Area Per M.Ton = 27.65m² / M.Ton
Hence Consumption = 9.265 Kg/M.Ton

DIP METHOD FOR USE OF NR-900 ON STEEL BARS

The G.I. Tank is to be made of size 12 Mtr X 0.5Mtr X 0.3 Mtr and the solution NR-900 alongwith cement to be added in the Tank. The steel Bars cut to size as per drawing are to be dipped in the Tank horizontally for 15 minutes and Air Dried for 8 – 10 hours and then it is placed on site where ever it is required.

N.B. : This information is given in good faith, is based on results gained from experiences and tests. However, all recommendations or suggestion are made without guarantee since the conditions of use are beyond our control.

PRICE, PERIOD OF DELIVERY AND TERMS OF BUSINESS ON REQUEST
MANUFACTURERED BY

Asian Laboratories

88, New Okhla Industrial Complex, Phase-II, New Delhi – 110020(INDIA)