



MATERIAL SAFETY & TECHNICAL DATA SHEET – CORROSTOP-15

1. MATERIAL IDENTIFICATION	
Name	CORROSTOP-15 – 4 IN 1 CORROSION INHIBITING CONCRETE ADMIXTURE
Manufactured by	M/s. LAAL CHEMICALS, Plot No. 20, Sri Suyambulingam Nagar, Annex II, Vadaperumbakkam, Madhavaram CHENNAI - 600066. Tamil Nadu, India PHONE NO. +91-63693 77109 / +91-99529 60458
2. INFORMATION ON INGREDIENTS	
<ol style="list-style-type: none"> 1) Bio degradable Chemical 2) Caustic Soda 3) Silica & Allied 4) Coloring Agent 	
3. HAZARDS IDENTIFICATION	
Non-Hazardous, non-flammable, Non-Toxic	
4. FIRST AID MEASURES	
<ol style="list-style-type: none"> 1) In case of any spillage on the skin, use plenty of water and wash. This is the first aid. Seek medical attention if required. 2) In case anyone swallows, make him to drink plenty of water immediately without any delay. This is the first aid. Seek medical attention if required. It is advisable not to handle this product by any wounded persons or persons having skin injuries 	
5. FIRE FIGHTING MEASURES	
Flammability	Product is inflammable
Extinguish Using	NA
Do NOT Use	N/A
Hazards present in case of fire	None
Precautions for fire-fighters	None
6. ACCIDENTAL RELEASE MEASURES	
Precautions	Wear suitable protective clothing, gloves and eye/face protection.
Environmental	Echo friendly product.
Treatment	Either wash away with copious amounts of water.
7. HANDLING & STORAGE	
Avoid contact with eyes and skin. Wear suitable protective clothing, gloves and eye/face protection. If working solution used by spray, do not breathe any mist or spray. Do not eat or drink when using the product. Wash hands after use. Store it under closed sun shade.	



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8. EXPOSURE CONTROL / PERSONAL PROTECTION	
Engineering Controls	Exhaust ventilation if working solution used by spray
Protection of Eyes	Safety glasses, goggles or face mask.
Protection of Skin	Rubber or PVC gloves.
9. PHYSICAL & CHEMICAL PROPERTIES	
Color	Pale Lemon Yellow
Odor	Odorless
pH	12.0 as per test method IS 9103:1999
Solubility in Water	Very easily soluble in water
Relative Density	1.05 -1.06
Chloride Ion Content	Less than 0.2 %
Viscosity	12 Seconds (Ford cup No. 4)
Dosage Range	1.5 Liters per cubic meter of concrete (Do not exceed 2.0 kg / Cum)
Compatibility	Compatible with all types of cement
Flash Point	Above 100 degrees Celsius
Combustible / Flammable	No
Mixing	Mechanical
Effect on Concrete	Refer to Laboratory test results
Banned chemicals	Nil
Toxic chemicals	Nil
Shelf Life	5 years from the date of manufacturing
Storage	Store in a normal shelter
Color	Pale Lemon Yellow
10. STABILITY & REACTIVITY	
Conditions to Avoid:	Stable
Materials to Avoid:	None
Decomposition Products	NA
11. TOXICOLOGICAL INFORMATION	
Eyes	Causes Irritation
Skin	Causes Irritation
Ingestion	Excessive amount of dust causes rapid drop in blood pressure
Inhalation	None
12. ECOLOGICAL INFORMATION	
No adverse effects known or suspected.	
13. DISPOSAL CONSIDERATIONS	
No wastage during the process of Manufacturing	
14. TRANSPORTATION DATA	
Hazardous code: NA Hazardous class: NA Hazardous division: None Hazardous contents: None Packaging group: NA	
15. OTHER INFORMATION	



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Advantages:

- 1) High Corrosion Resistant Concrete Admixture
- 2) Enhances the life of RCC structures from 40% to 80% (Refer to the durability factor of CORROSTOP-15 mentioned CECRI Report)
- 3) Additionally, CORROSTOP-15 possess very high-water proofing property and hence completely seals the invisible pores inside the concrete
- 4) Very effective in reducing the life cycle of cost of the structures built in coastal and other corrosive environment.
- 5) Enhances the performance of hardened properties of ready-mix concrete due to excellent compatibility.
- 6) Minimizes formation of air cracks 24 hours after laying concrete over roofing during building construction.
- 7) Avoids formation of cracks in cement wall plastering especially when Manufacturing Sand is used

Areas of Application:

- 1) Coastal areas especially in areas where salinity in air is more and Hill stations
- 2) Industrial, Residential, commercial and Infra – Structure projects
- 3) Recommended for all types of R.C.C structures, especially for the structures below ground level where water is saline in nature

Dosage:

- 1) For Mixer machine, 250 ml of CORROSTOP-15 to be added into the water present in the mixer machine drum for a bag of Cement of 50 Kg.
- 2) For Ready Mix Concrete (RMC) , 1.5 Liters of CORROSTOP-15 to be added for 1 cubic meter of Concrete (m³)

Methods of Application:

- 1) For Mixer machine, required quantity of water to be added into the mixer machine drum and 250 ml of CORROSTOP-15 to be added to the water. After that add blue metal, river / M-Sand and cement into the drum and the mortar is now ready to be laid.
- 2) For Ready Mix Concrete (RMC), once the RMC lorry reaches the site, add required quantity of CORROSTOP-15 (as mentioned in the dosage section) into the RMC rotating drum and allow the drum to rotate for 5 minutes for a thorough mix. After 5 minutes, the concrete is ready to be laid.

Test Certification Details:

CORROSTOP-15 has been tested and certified by

- 1) The Structural department of IIT, Madras (Govt of India)
- 2) The Corrosion Department of CSIR-CECRI (Council of Scientific and Industrial Research – Central Electro Chemical Research Institute, Karaikudi - Govt. of India
- 3) National Council of Cement & Building Materials (NCCBM),Haryana - Govt. of India

For more details of information, please refer to the individual test reports

STANDARDS ADOPTED FOR TESTING:

1. Initial & Final Setting time of Concrete - BIS 4031
2. 28 Days Compression Strength of Concrete - BIS 10262 - 2009
3. Tensile Strength of Concrete - BIS 5816 - 2004
4. Rapid Chloride Penetration Test (RCPT) - ASTM C1202
5. Evaluation of Corrosion Resistant - ASTM G 106, G 59 & G1
6. Water Penetration Test - IS DIN 1048
7. Evaluation of Bipolar Concrete Penetrating Corrosion Inhibiting Admixture (BCPCIA) – RDSO (Research Design and Standards Organization) - Specification No. M&C/PCN/ 126 /2020



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16. OTHER INFORMATION: MSDS data issued on 09/01/2022, The information provided in this safety data sheet is accurate at the date of publication, and will be updated as and when appropriate.