



ZARCINDIA™

ISO 9001 : 2015

A COMPLETE CONCRETE SOLUTION

Manufacturing of Admixture Waterproofing Compound & Grout Material

📍 Balaji Industrial Park, Taloja MIDC, Panvel, Dist.: Raigard, Mumbai, Maharashtra- 410 208

✉ zarcindia555@gmail.com 🌐 www.zarcindia.in ☎ + 91 7021 273 469 / + 91 9987 707 356

SUPERPLAST 630

PC Based Water reducing slump retaining Superplasticizer

DESCRIPTION:

SUPERPLAST 630 Pce has been primarily developed for application in the ready mixed and precast concrete industries where the highest durability and performance is required. Superplast 630 is compatible with all Portland cements meeting recognized international standards and is free from chlorides and has been formulated to comply with ASTM C-494 for types A and F admixtures.

TECHNICAL DATA

Colour	Light Red/ Straw Liquid
Form	Viscous Liquid
Specific Gravity @ 30°C	1.11 ± 0.02
Chloride Contain	Nil

APPLICATIONS:-

Superplast 630 pce is especially suitable for the production of concrete mixes which required high early strength development . Powerful water reduction and excellent flowability

- Pumped concrete
- Fast track concrete
- Precast concrete
- Self compacting concrete.
- High Grade concrete (M-30 and Above)
- Concrete requiring long workability and long retention.

ADVANTAGES:-

- Pronounced increase in the early strength development resulting in very economical stripping times for precast and in situ concrete.
- Extremely powerful water reduction, resulting in high density , high strength and reduced permeability for water.





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- Excellent Plasticizing effect , resulting in improved flowability, placing and compacting behavior.
- Superplast 630 is differentiated from that superplasticisers in that it is based on a unique polycarboxylate ether polymer with long lateral chains . Conventional superplasticisers , such as those based on sulphonated melamine and naphthalene formaldehyde condensates, at the time of mixing , get adsorbed into the surface of the cement particles . This adsorption takes place at a very early stage in the hydration process.
- The sulphonic groups of the polymer chains increase the negative charge on the surface of the cement particle and dispersion of the cement occurs by Electrostatic repulsion.
- The long lateral chains of Superplast 630 greatly improve cement dispersion. At the start of the mixing process the same electrostatic dispersion occurs as described previously but the presence of the lateral chains , linked to the polymer backbone, generate a steric hindrance that stabilizes the cement particles capacity to separate and disperse .
- This mechanism provides flow-able concrete with greatly reduced water demand . The excellent dispersion properties of Superplast 630 make it the ideal admixture for precast concrete where low water cement ratios are required .
- Always conduct trial before combining products in specific mixes and contact our technical service department for information about specific combinations.
- High water reduction.
- Excellent early and ultimate strengths. Possibility of elimination of steam curing .Less permeable. Highly durable concrete.

DOSAGE:-

Generally 0.4 – 1.4 % by cement . Do not allow overdosing . Due to overdosing setting time will be extended gloriously. It is advisable to carry out a trial to establish the exact and optimal dosage depending upon set retardation required

HEALTH & SAFETY:-

- Use goggles and hand gloves during application .
- Clean hands with warm soap water after application.

PACKAGING:-

- Available 230/235 /250 kgs HDPE drums and bulk tanker .

STORAGE:-

Must be stored in original packing, in ambient temperature, dry place under shed. Protect from direct sunlight.

SHELF LIFE:-12 months in original sealed condition under appropriate cooling condition





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Material Safety Data Sheet

SUPER PLAST 630

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

01> Chemical Product Name : **SUPER PLAST 630** (Poly Carboxylic Ether)

02> Use : Superplasticizer(Admixture) for Cement & Concrete

03> Manufacturer :ZARC INDIA
 - Head Office :505 Akash Height
 Plot No 104 , Sector-10, Talaja Panchanand
 Phase -1 Raigarh Panvel Navi Mumbai-410208
 email id :-zarcindia555@gmail.com
 hp-8692926167/9987707356

-Factory P-27 Balaji Industrial park, Servey No-119,120,121
 Near Hindalco Co.at Tondre Village , Talaja MIDC
 Panvel Navi Mumbai -410208
 hp-9987707356/ 8692926167

2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition	Poly carboxylic Ether (solution)		
Components	Other Names	CAS .NO	Wt%
(1) Poly carboxylic Ether	-----	Trade secret	-----
(2) Gluconate	-----	-----	-----
(3) SLES	-----	-----	-----
(4) Water	-----	7732-18-5	-----

3. HAZARD IDENTIFICATION.

No Significant Hazard





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4. FIRST-AID MEASURES.

1. Eye : Immediately flood the eye with plenty of water for at least 10 minutes .Holding : the eye open. Obtain medical attention.
2. Skin :Wash skin thoroughly with soap and water . Obtain medical attention if blistering :occurs or redness persists. Contaminated clothing should be washed or dry - :cleaned before re-use.
3. Inhalation :Remove from exposure . Keep Warm and at rest. If there is difficulty in breathing :give oxygen.
4. Ingestion : Wash out mouth with water. Give 2 or 3 glasses of milk or water to dilute and . :Induce vomiting Obtain medical attention.

5.FIRE FIGHTING MEASURES.

- 1.Extinguished Media : None , Not flammable.
- 2.Specific Hazards : None
- 3.Special Protective Equipment : None

6.ACCIDENTAL RELEASE MEASURES.

- 1.Personal Precaution :Wear suitably protective clothing and equipment's. Avoid : eye and skin contact.
2. Environmental Precaution : Prevent Sewers and water courses. Entry into drains ,
- 3.Decontamination Procedures : Avoid the creation of dust in atmosphere .Gather into :Containers Residues may be flushed to drain with large :volumes of water prior consent must be obtained from the :local water company if discharged to sewer.

7.HANDLING AND STORAGE

- 1 Handling : Avoid skins and eye contact.
- 2.Storage :store in cool dry area store away from food stuffs . Please follow the rules of the VCI storage –concept for chemical container tightly sealed.





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8.EXPOSURE CONTROLS & PERSONAL PROTECTION

- 1.Additional information about of design of technical system : It must be possible to wash the skin in the working area. Eye wash bottle must be available.
- 2.Engineering controls: :No Data
- 3.Personal Protection : Impervious gloves(Rubber or plastic waterproof.)
: Chemical splash goggles or face shield.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Color	: Straw liquid
Odour	:Characteristic
Ph(Working dilution)	:6—to 7.9
Boiling point range(°C)	:>100 °C
Flash point closed °C	: none
Autoflammability °C	:Not Applicable
Oxidising properties	:Not Determined
Relative Densityat 20 °C	:1.02 to 1.14gm/ml
Water solubility	:Easily soluble

10.STABILITY AND REACTIVITY

Stability	Stable if used according to specification.
Condition to avoid	:Exposure to air Contamination with water. Temp <10 °C
Materials to avoid	Strong acids .Strong alkalies, oxidizing agent
Hazardous Decomposition Products	:Thermal decomposition-sulphur compound

11.TOXICOLOGICAL INFORMATION

Eye	:Irritating and may injure eye tissue if not removed promptly.
Chronic	:None known
Skin	:Irritating see “Chronic” effects.
Ingestion	:May coz irritation of mouth throat and digestive tract.
Inhalation	:Irritating to respiratory system . Inflammation of the nasal mucous membrane : by exposure to cement dust.





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12.ECOLOGICAL/ INFORMATION

Environmental assessment : Little detailed information is available on the ecological Effects of this Product but its overall environmental impact is not regarded as significant.

Mobility : Mobile liquid , soluble in water

Persistence and Degradability : not readily biodegradable

Ecotoxicity : Expected to be fish /daphnia/algae in cured state.

13.DISPOSAL CONSIDERATIONS

Disposable must be in accordance with local and national legislation.

Unused product:-- Disposed through an authorized waste contractor to licensed site.

Used/ Contaminated product Packaging :- As for used product cleaning by water if necessary with cleaning agent may be scummed, cleaned and Recycled.

14.TRANSPORTATION INFORMATION

This product is not classified dangerous for Transportation.

15.REGULATORY INFORMATION

Hazard Label Data : This product not dangerous for supply.

Name of Ingredients : Poly Carboxylic solution

Codes of practices : Waste Management. The duty of care.

Statutory Instruments : Chemical (Hazards information and packing for supply amendment regs 1996(SI 1092) Health and safety at work etc act 1974 control of substances hazardous health regs 1994(SI 3246)

Risk Phrases : irritating to eyes respiratory system and skin.

Guidance Notes : Occupational skin diseases health and safety precaution (EH26)

Dust in the workplace general principles of protection (EH 44)

16. OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product of application other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for stated application or applications without seeking advice from ZARC INDIA. If this product has been purchased for supply to third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any persons handling or using the product is provided with the information in this sheet. This sheet does not constitute or substitute for the user's own assessment for workplace risk. As required by other health and safety legislation.

