

High Performance Concrete Admixture

Zydex[®]
Innovating for Sustainability



DensiFLEX-C CONCRETE ADDITIVE

Densiflex-C is a next generation liquid cement admixture which improves compressive and flexural performance in addition to improving the work-ability of the mix. It results in better packing and reduction of honeycombing and excessive porosity.

FEATURES

- Improved Flexibility
- Higher Strength
- Improves Workability
- Minimizes porosity and honeycombing
- Enhances overall concrete quality
- Compliant to IS: 2645-2003

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PRODUCT BENEFITS /ATTRIBUTES

- **Improved Flexibility:** The higher flexural modulus would reduce cracking in concrete structures be it due to shrinkage, linear, joint spalling or durability related
- **Higher strength:** Compressive strength is considerably higher allowing for design optimization or deliver better performance and improved life
- **Improves work-ability:** Extended setting time and better compaction of concrete
- **Minimizes porosity and honeycombing:** Reduces water intrusion and supports production of a denser and homogenous concrete that reduces pavement degradation & cracking over time
- **Enhances overall concrete quality:** As a resulting of improved strength and crack resistance faster and higher strength is attained for all concrete applications.
- **Standards Compliance:** Densiflex-C conforms to IS: 2645-2003

PROPERTIES

- **Chloride content:** As per IS: 6925-1973
- **Permeability:** Reduces permeability of treated concrete thus increasing its durability
- **Compatibility:** Can be used with all types of portland cement including pozzolanic but not high Alumina Cement.
- **Setting Time:** Can extend the initial setting time
- **Strength:** Comprehensive and flexural strength of the concrete improves significantly in all grades
- **Shrinkage:** Reduces shrinkage / crack development on surface and sub-surface concrete.

TECHNICAL DATA

| PROPERTY | SPECIFICATION |
|-----------------|-------------------------------|
| Appearance | Creamish to Light brown light |
| pH | 6.0 - 8.0 |
| Solid content | 33 - 35% |
| Water solubilty | Easily dispersible |

DOSAGE & APPLICATION

- **Recommended Dosage:** 200 ml per 50 kg bag of cement. Conduct mix design to finalize/optimize the dosage rate.
- **Addition:** Densiflex-C should be added through the water holding tank
- **Concrete:** Densiflex-C is recommended for all the concrete applications be it continuous, plain jointed or precast, reinforced or unreinforced.
- Densiflex-C is ideally suitable for normal weight and light weight concrete in ready-mix, pumpable concrete and precast and prestressed applications.
- Densiflex-C is manufactured under rigid controls to provide uniform & predictable performance.

STORAGE & SHELF LIFE

- Keep Densiflex-C in a dry and cool shade. Do not store in direct sun or at a temperature higher than 45°C.
- Minimum shelf life of the product is 24 months.

DISCLAIMER

The information & data contained herein are given in good faith but without warranty. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.

ABOUT ZYDEX

Established in 1997, Zydex is a specialty chemicals company with the purpose of innovating for sustainability.

Beyond construction products, Zydex offers a diverse set of chemical technologies for the textile, agriculture and pavement industries. We were recently recognised as one of the 25 Most Innovative Companies in India by the Confederation of Indian Industry (CII).

Sustainable Green Chemistry

Zydex is deeply committed to sustainable chemistries that ensure a greener future for everyone. Our commitment has made us a pioneer in introducing non-polluting and non-hazardous technologies that conserve, protect and enhance the environment. Pursuing chemical innovations that would mean a greener, purer and more resource renewable world is our passion. Our technologies have been recognized for their contribution to sustainability and globally accepted.



25 Most Innovative Companies of India

GLOBAL PRESENCE

