

REDWOP CREKA N

Microsilica Increase strength of concrete, refractory and ceramic application



Description:

REDWOP CREKA N is composed of silicon dioxide (SiO₂), collected from silicon metal and ferrosilicon. It will react with the Calcium Hydroxide from the cement, which will form more of the Calcium Silicate hydrate, increasing the strength of the concrete. Using it will also increase the durability of the concrete.

Uses:

- Precast works
- Produces high early and higher ultimate compressive strengths
- Eliminates steam curing, saving on heating costs
- Shotcrete usage
- Less material wastage and greater efficiency of product use
- High impermeability and significantly less rebound loss
- Protects reinforcing steel from corrosion
- Improved bonding strength
- Thicker applications with each nozzle pass and enhanced pumpability

Advantages/Characteristics:

- High performance concrete
- Precast concrete
- Spray applied concrete
- Concrete exposed to environmental and chemical attack
- Marine concrete
- Ready mix concrete for high strength concrete

Product Standard Compliance:

- IS 15388:2003

Company Standard Compliance:



Technical Information:

Properties	Specification
Components (% byWeight)	Silicon material production
SiO ₂ (IS 15388:2003, IS1727)	> 90%
Available Alkalis (IS 15388:2003)	< 1.0%
Loss on ignition (IS 15388:2003, IS1727)	<3.5 %
Moisture Content (IS 15388:2003)	< 2.0%
Specific Surface (IS 15388:2003, Annex A)	15-25 m ² /g
pH	6 to 8

Oversized percent retained on 45 micron IS sieve (IS 15388:2003, IS1727)	<8.0 %
Oversized percent retained on 45 micron IS sieve, Variation from average Percent (IS 15388:2003, IS1727)	<3.0 %
Compressive Strength at 7 days as percent of control sample (IS 15388:2003, IS1727)	>85 %
Dry bulk density	500 to 700 Kg/m ³

Application Procedure:

REDWOP CREKA N should always be added in the early stages of the mixing process. It is recommended that REDWOP CREKA N be weight batched to the required quantity prior to addition to the mix.

In dry batching operations, REDWOP CREKA N should be dry blended with aggregates and cement prior to the addition of water to the mixer. In wet batching operations REDWOP CREKA N should be added to the mixer at the same time as the cement. REDWOP CREKA N can if required, be added to the mixer in slurry form.

In order to achieve a low water cement ratio, the use of high range water reducing admixtures.

Dosage:

Dosage can be adjusted to meet various mix design requirements or to specific job site conditions. Trial concrete or grout mixes must be carried out to determine the appropriate dosage. Typical dosage is between 2% and 8% of cement content.

Packaging:

REDWOP CREKA N is supplied in 25 Kg bag.

Storage & Shelf-life:

Minimum of 12 months shelf-life if kept under room temperature (i.e. 27 °C)

Health & Safety:


REDWOP CREKA N is non-flammable. It may cause dust pollution and irritation to respiratory tract. Hence wear suitable dust mask, protective gloves and goggles while handling the material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Cleaning & Disposal:


The disposal of excess or waste material should be carried out in accordance with local statutory requirements.

Legal Notice:


The information, and, in particular, the recommendations relating to the application and end-use of Redwop products, are given in good faith based on Redwop's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Redwop's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.




It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.




ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.



ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.




ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance



This symbol is used to identify Redwop products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organization for controlling the level of emissions from products used for floors.



Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.



ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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