



# Terracarb

Disruption through sustainable innovation



## PRODUCT INFORMATION SHEET

### CONCRETE ADMIXTURE

An eco-friendly water-based Graphene admixture to enhance the mechanical properties of concrete for better workability and reducing carbon footprint by reducing the use of cement.



### PROPERTIES

- Easy integration - Disperses well with water-based formulations
- Stronger and lighter concrete structures
- Reduction in use of cement and reinforcements
- Reduces thermal cracks
- Reduction in water permeation and chloride ingress
- Increases workability
- It lowers permeability and raises durability

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FOURTH FLOOR, J BLOCK, PSG STEP, PSG COLLEGE OF TECHNOLOGY, COIMBATORE, TN 641004



## DOSAGE

- The recommended dosage of Terracarb's admixture to water is 1:4 (vol/vol)

## DIRECTION OF USE

- Terracarb's graphene admixture is added to the concrete with the water input during the mixing process.
- It should be mixed for a sufficiently long time to assure that the additive is uniformly spread throughout the entire concrete mixture.
- Do not add the additive on the cement and dry aggregate before the mixer water.

## HANDLING

- When handling, preventive measures usually used when handling chemical products should be employed; e.g. wearing protective eyewear and gloves.
- No eating, drinking or smoking during application.
- Wash hands before and at the end of the job.
- No chemical risk. It is not considered dangerous merchandise for road transport.
- Avoid contact with skin and eyes, Seek medical attention if irritation presides.

## STORAGE CONDITIONS / CONSERVATION TIME

- Keep container in a dry, cool, well-ventilated area.
- Keep container tightly closed and sealed until ready for use.
- Under suitable conditions, Terracarb's concrete admixture may be kept for up to 3 months after its date of manufacture.



## PROPERTIES

MAIN FUNCTION	Performance enhancer
PHYSICAL APPEARANCE	Black/Dark grey liquid
DENSITY, 20°C	1.02 ± 0.02 g/m <sup>3</sup>
BROOKFIELD VISCOSITY 20 °C Sp00/100rpm	10 cps
CHLORIDE CONTENT	< 0.1%

## RECOMMENDATIONS

- Prior tests are always recommended before using the additive.
- Do not use dosages above or below those recommended without previously consulting the Technical Department.
- Enquire about additive compatibilities before use.

## NOTICE:

*This product information sheet only offers a description of the product features, directions for use and its applications. The data and details given are based on our technical knowledge resulting from bibliography and specialist practice.*

*The consumption and dosage data cited in this product information sheet are based on our own experience, hence they may vary under different worksite conditions. Real consumptions and dosages should be defined at the worksite by conducting prior tests, and such tests are the client's responsibility.*

*Our Technical Service is at your disposal for any additional advice you may require. Terracarb reserves the right to modify the composition of the products provided that they continue producing the characteristics described herein. We shall not be held liable if the product is employed for uses other than those indicated herein.*

*Future reservations regarding patents or third-party rights, should be taken into account.*

**Edition: 03/06/2021** Publication of a subsequent edition renders this information sheet null and void.

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