

Cement-free Sustainable Concrete Blocks and Kerbs



The Cement/ CO₂ Problem

Cement contributes **8%** of total worldwide **CO₂** emissions



Source: World Business Council for Sustainable Development

1 ton of Cement produces **~810** kilos of **CO₂**



Source: European Cement Association

Extraction for cement causes deforestation and habitat destruction



Source: World Wildlife Fund

Cement manufacture **~7%** of global industrial **energy** use



Source: International Energy Agency

Contributes to **Air pollution, Thermal pollution and waste generation**



Source: European Cement Association

Our buildings leave Cement-CO₂ footprints in various ways

Foundations and structures



Roads and compound walls



Masonry work



.. and others

Irrefutable evidence of Climate Change/ Global Warming



The IPCC's (a leading international body) assessments of the scientific research

Worldwide Temperature Records

Proxy Data: that reconstructs past climate conditions

Melting Glaciers and Ice Sheets- Observed

Ocean Warming- Measured

Rising Sea Levels- Measured

Rising CO₂ Levels- Measured

Climate Models: show green house gas emissions as major culprits

How will global warming affect us and our children?



Extreme Weather Events



Rising Sea Levels



Water Scarcity



Ecosystem Disruptions & Consequences



Health Impacts



Food Security



Wars?

What is **UN CARBON**?



The **UN CARBON** range of sustainable concrete products by VYARA, utilize industrial wastes such as Fly Ash and GGBS, and a small percentage of special activator chemicals as the binders instead of Cement, thereby offering you a huge reduction in CO₂ footprint in your precast concrete consumption.

Why is **UN CARBON** such a gamechanger??

1st

In the country using cement substitutes at such a scale

~20000

tons of CO₂

Possible to save for VYARA- every month

~85%

Of the binders are industrial side-streams instead of Cement

Zero

Cement in many products

Protecting the future

UN CARBON products and major standards

UnCarbon Products can be offered to meet relevant standards



IS 15658 and EN 1338 for Pavers

IS 575 and EN 1339 for Kerbs

EN 1340 for Flagstones

IS 2185 for Hollow and Solid Blocks

IS 17452 for Alkali activated precast

UN CARBON contributes to IGBC green building points

As per IGBC Green New Building Rating system version 3.0 of Sept 2016	Possible points
Site Selection and Planning Credit 6 Heat Island Reduction, Non-roof	2
Site Selection and Planning Credit 7 Heat Island Reduction, Roof	2
Water Conservation - Rainwater Harvesting, Roof & Non-roof	4
Building Materials and Resources Credit 1 Sustainable Building Materials	8
Building Materials and Resources Credit 3 Handling of Waste Materials, During Construction	1
Building Materials and Resources Credit 4 Use of Certified Green Building Materials, Products & Equipment	5
Innovation and Development Credit 1 Innovation in Design Process	4
Innovation and Development Credit 2 Optimization in Structural Design	1
VYARA paving, Eco range and the UNCARBON range can together contribute towards 27 IGBC points for new Green Buildings	27

UN CARBON helps Corporates in fulfilling ESG obligations

Environmental

Reduction in CO₂ footprint



Conservation of natural resources



Health and well-being



Social

Sustainable community



Governance

Reputation and stakeholder perception





Reduction in use of Cement is everyone's responsibility!

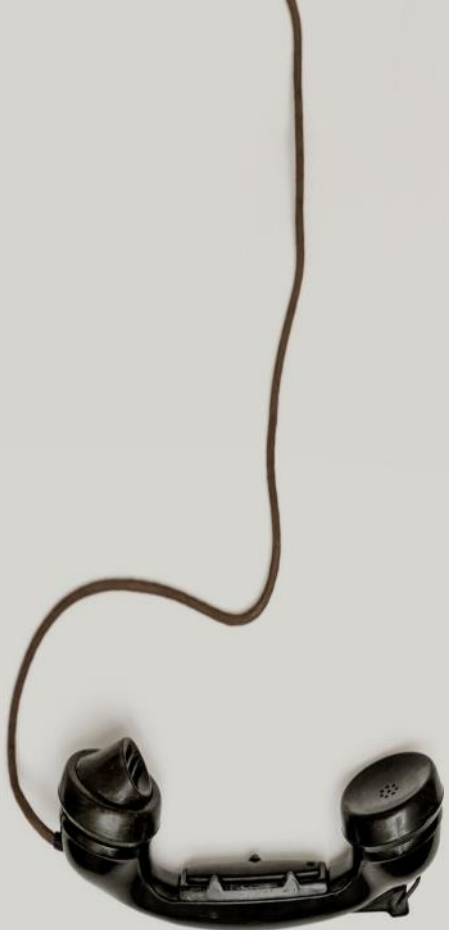
How can you contribute?

Ask for products for your application

Specify use of UnCarbon products

Contribute to a greener future

Currently Paver Blocks are available in the UnCarbon Range. Other ranges will slowly be integrated and the range of products available under the Uncarbon range will be soon expanded



You've heard from us.

we want to hear
from **you.**

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