

BUILDING & CONSTRUCTION UPDATE

INDIA'S best Magazine for Building, Construction & Infrastructure Industry

FAST MOVING INFRASTRUCTURE
HEAVY ENGINEERING REQUIRED FOR DEVELOPMENT

Build Green with Prism RMC



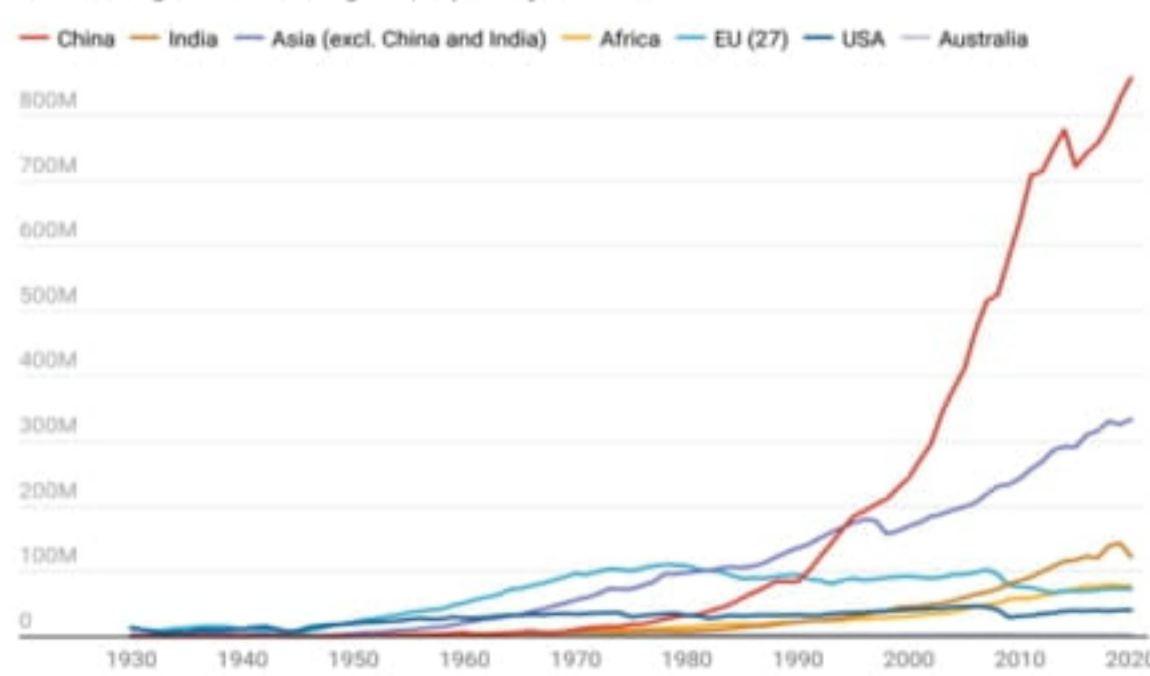
RMC (India) ("Prism RMC"), a division of Prism Johnson Limited, is one of India's leading ready-mixed concrete manufacturers. Set up way back in 1996, it operates 97 ready-mixed concrete plants and 3 aggregate quarries in 44 cities and towns across the country. Prism RMC has been the forerunner in setting high standards of performance for plant, machinery, production, quality systems, and product services in the ready-mixed concrete industry.

Sustainability with Prism RMC

Prism RMC remains steadfast on the path of sustainable development. It strives to reduce the overall impact of its operations on the environment, improve the health and safety of its team members and supply high quality concrete to its customers; all this while making the communities it serves a better habitat. The actions taken have a beneficial impact on the environment and Prism RMC is more than happy to stand behind its sustainability choices and efforts.

Global cement emissions doubled in the past 20 years

Cement is responsible for about 8% of global greenhouse gas emissions, and demand for the concrete it goes into is rising fast, especially in Asia.



RRR (Reduce, Recycle & Reuse) Factor with Prism RMC

Concrete is the most widely produced building material in the world. However, its major binder, cement, is also accountable for part of the worldwide carbon dioxide emissions.

Prism RMC is committed to environment protection and pollution prevention inside its plants as well as the nearby areas. Prism RMC has taken several initiatives for sustainable development by using industrial waste products such as fly ash, blast-furnace slag, etc. as a part replacement of cement in concrete manufacturing, thereby assisting in the preservation of natural resources and reducing green-house gas emissions caused by cement production.

As part of its commitment towards sustainability, Prism RMC has also taken measures to use recycled water in production at most of its plants, which has helped to reduce water footprint. Prism RMC plans to further reduce water intensity of its concrete production by around 15% by FY25, as against the baseline year of FY22.

Prism RMC has also developed mixes using crushed stone sand (CSS), a by-product of the aggregate crushing process. It also uses Granulated Blast-furnace Slag (GBS), a by-product of the iron industry, and copper slag, as a partial replacement to fine aggregate in concrete.

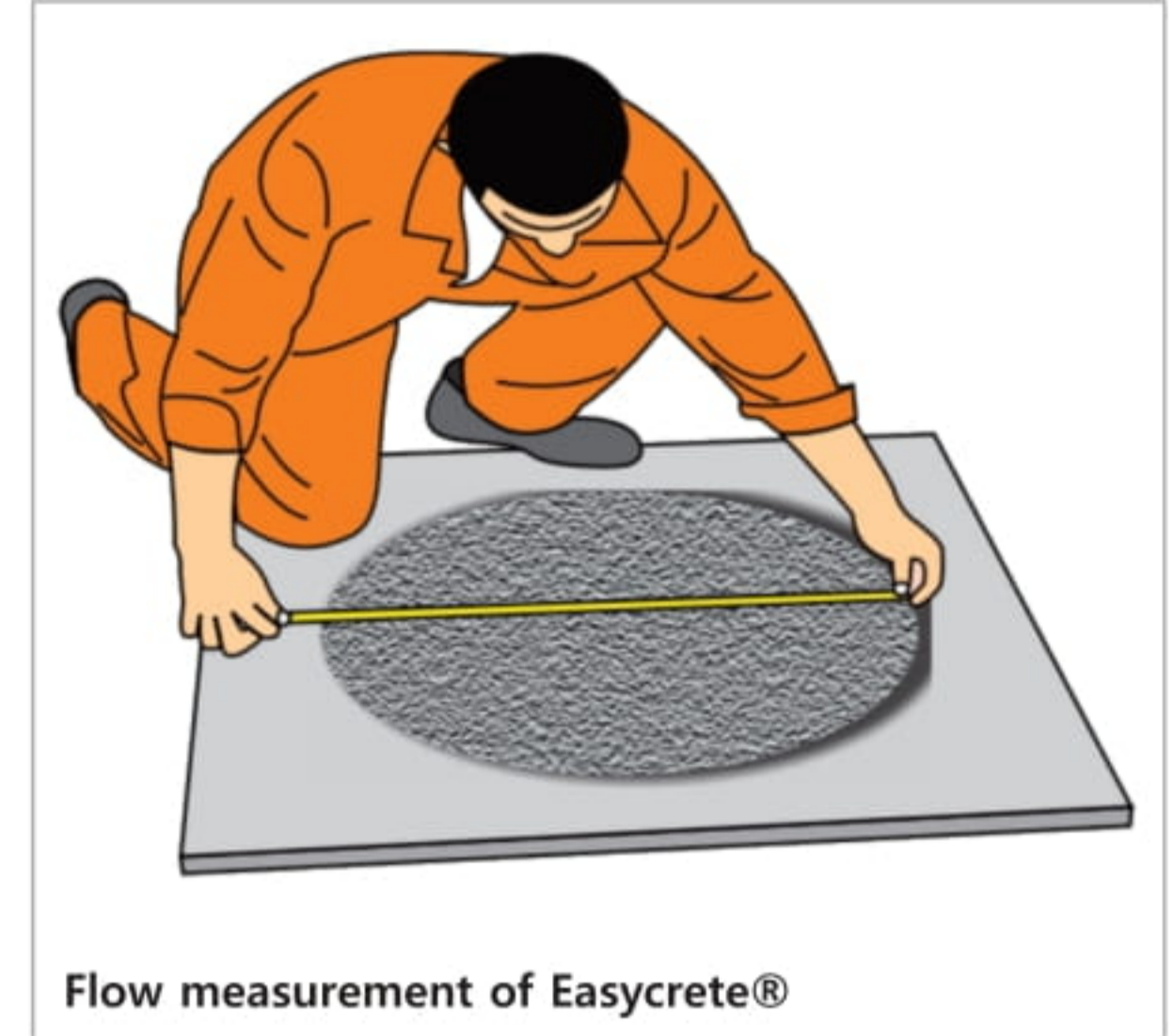
Prism RMC continues to curate products that are both beneficial to its clients and are environment friendly as well. A few of such products are enlisted below:

Foundationcrete® is a specially formulated concrete that makes foundations robust and long-lasting, thereby extending the service life of the structure. It aims at minimizing core temperatures and thermal gradients & provides a unique resolve to the concrete in foundations to resist migration of harmful ingredients from sub-soil conditions.

Envirocrete® is a high-performance, high-quality sustainable concrete that meets present and future environmental goals of high durability and low environmental impact. This has been developed by replacing about 40 to 70% of clinker with by-products of other industries.

Easycrrete® is an innovative concrete that does not require vibration for placing and compaction and hence improves construction practices and performance of the concrete. Since it eliminates the need for vibration, it

results in an improved working environment, reduces noise pollution & provides better safety to workers from noise & vibration induced illnesses.



Flow measurement of Easycrrete®

The positive impact on the environment includes the following:

- Increased overall durability of Easycrrete® enhances lifespan of the structure beyond that of Traditionally Vibrated Concrete, thereby reduces environmental footprint on a unit time basis.
- Reduced energy consumption, reduces fossil fuel usage.
- Rapid discharge rate of Easycrrete® reduces dwell time of truck mixers at job sites, thereby reducing fossil fuel usage.

Perviouscrete® as the name suggests, is a specially designed concrete that allows water to pass through and hence aids in rain water harvesting, enriching aquifers below the ground and mitigates water accumulation and waterlogging on the cast concrete surfaces and thereby avoids mosquito breeding.



Perviouscrete® for school playground in Nashik

Prism RMC

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