

Technology Demonstration Initiatives



JSW Cement Limited

The R&D effort of JSW Cement, based on the philosophy of circular economy, revolves around developing products and solutions with slag as a primary material. As part of product diversification strategy, JSW Cement has entered the construction chemical sector with the launch of a green product range where business operations align with a sustainability vision to contribute towards a circular economy. The three products within the construction chemical range are:

- Krysta Leakproof: An integral crystalline waterproofing admix and a capillary waterproofing compound for concrete and mortar.
- Duraflor: A high-quality, long-lasting, cementitious-based, non-metallic and non-oxidising concrete floor hardener, free from organic impurities.
- ENduroplast/Ready Mix Plaster: A single component water-resistant monolith plastering / rendering mortar made from slag sand instead of river sand.

Apart from the above-mentioned products, the organisation recently launched another product Screened Slag. This product is superior to river sand because the river sand/crushed rock fines contain fossils and other irregular particles, such as clay and silt that affect quality and durability. Screened Slag meets all the requirements of IS: 383-2015. For this, JSW Cement has allocated required resources in terms of financial, human, and technical resources. Additionally, the company also adopted the usage of finish-grinding in roller-presses that help them produce high-quality slag cement.

The research and development pillar, initiated under the company's sustainability strategy, is driven at the corporate level. Under this pillar, the organisation develops products and solutions which are sustainable, low-carbon based, and innovative. The organisation is committed to engaging with top academia like IITs in India and collaborating with research networks to commercialise cutting-edge and some disruptive technologies.