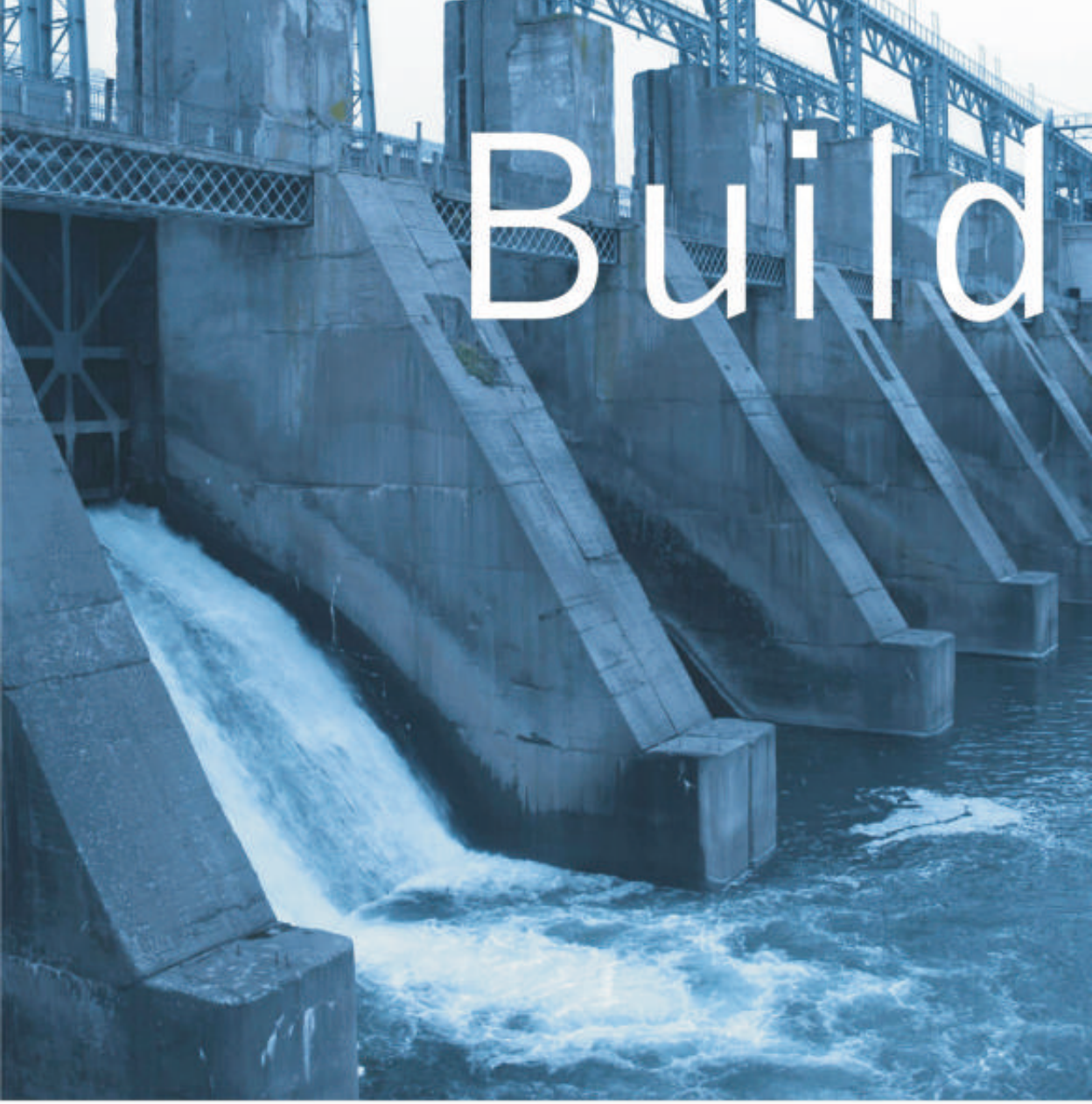
Reliance
Industries Limited
Growth is Life

You know how to mix engineering, architecture and structural design.

Now also add trust and confidence.

Recron 3s
For quality and durable construction

Builders build mere structures. Good builders build monuments to faith, trust and confidence. Offices become abodes of enterprise and prosperity, houses become homes, and roads become pathways of progress. Enabling this will be the ability of Recron 3s to add durability and strength to the structures you build.


Build

faith.

The most durable structures are the ones built on a foundation of faith. That faith comes in the form of Recron 3s that augments your edifice with the properties of durability and robustness.

Ordinary concrete, when subjected to the rigorous test of time and extreme weather conditions, tends to crack and lose its strength. It can lead to seepage and corrosion of primary steel & spauling of concrete. The solution lies in placing your faith in Recron 3s.

As a secondary reinforcement material, it arrests shrinkage cracks and increases resistance to water penetration, abrasion and impact. It makes concrete homogenous and also increases compressive behaviour, ductility and flexural strength together with improving a structure's ability to absorb more energy. Thereby extending its life span and also reducing its maintenance costs. Ability to replace or reduce non-structural steel also reduces input costs. No surprise that leading architects, structural engineers and builders rely on Recron 3s to deliver on quality and durability.

Build con

Endorsements from some of the top technical and quality control institutes in the country can mean only one thing. Confidence that your structures will truly stand the test of time, weather and everything else a concrete structure needs to withstand.

Recron 3s: improves major properties of concrete

Sr. No.	Properties	Gain over Normal Mix	Test By
01	Compressive Strength (28 days)	+12 to 16% (In select grades)	• IIT, Madras • IPRI Punjab • CRRI - New Delhi • Al Futtaim Bodycote Dubai
02	Flexural strength	+7 to 14%	• CRRI - New Delhi • IPRI Punjab • Al Futtaim Bodycote Dubai
03	Split Lensile strength	+7 to 14%	• SVNIT Surat • IPRI Punjab • GERI Baroda • KCT Coimbatore
04	Drying Shrinkage	-48 to -80%	• CRRI - New Delhi • IIT Madras
05	Water Percolation	-44 to -60%	• CRRI - New Delhi • Al Futtaim Bodycote Dubai
06	Permeability, K cm/sec under stress conditions	Nil	• IPRI Punjab • IIT Madras
07	Abrasion Resistance	+25%	• IIT Madras
08	Impact Resistance	+40 to 140%	• IIT Roorke • IPRI Punjab
09	Damping (under dynamic loading)	26%	• SVNIT Surat
10	Energy Absorption	55%	• SVNIT Surat
11	Young's Modulus	23.70%	• SVNIT Surat
12	Fatigue Life (cycle)	230% times higher	• M.S. University, Baroda

Note: Specific results for specific grade of concrete/mortar can be provided against request.

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The colliseum in Rome was built using horse hair as a reinforcement agent. Tipu Sultan's palace at Srirangapatnam was built using sheep wool while the oldest existing houses in America were made using straw as reinforcements. History continues to be made with several prestigious projects around the world and in India now using Recron 3s as a reinforcement agent.

A select few from the many who have placed their trust in Recron 3s:

- Airport Authority of India • Architects • Eminent structural engineers
- Gujarat Maritime Board • Indian Railways • Kandla Port Trust
- Military Engineering Services • Ministry of Shipping, Port Blair
- Producers of Pre cast products • RMC Manufacturers
- State PWDs • State & Central Government Undertakings
- IT Parks and SEZs • Several private builders etc.....

Packaging & Dosage

Product Type	Length	Pouch Size	Application	Recommended Dosage rate*
Polyester				
FT2062	3mm	500g	POP	10 g per 20 kgs of POP
		500g	Water proofing/ texture paints	20g per lit. of water proofing emulsion
FT2010	4.8mm	100g	Fine Plaster / Plaster	100g per 50 kgs of cement
CT2012	6mm	125g	Plaster, Concrete, Screed	125g per 50 kgs of cement
CT2024	12mm	125g	Concrete, Screed	125g per 50 kgs of cement
CT2424	12mm	900g	Concrete Pre Cast	900g per m^3 of concrete
CT2436	18mm	900g	Concrete, Shotcrete, Gunniting Pre Cast	600-1800g per m^3 of concrete: case to case basis
Ct2448	24mm	900g	Concrete	900-1800g per m^3 of concrete
Polypropylene				
CTP2012	6mm	90g	Plaster	90g per 50 kgs of cement
CTP2024	12mm	125g	Concrete, Screed	125g per 50 kgs of cement
CTP2424	12mm	900g	Concrete Pre Cast	600-900g per m^3 of concret
CTP2436	18mm	900g	Concrete, Shotcrete, Gunniting Pre Cast	600-1800g per m^3 of concrete: case to case basis
CTP2448	24mm	900g	Concrete	900-1800g per m^3 of concret

1:4 cement to sand ratio mortar mix; adjust as per the mix design. * for specific use, please contact nearest office.
Customized packing in sizes other than standard size available upon special request.

Recron 3s has a wide number of applications in the construction industry:

a) Concrete:

Slab On Grade: All types of CC Pavements & Overlays, Industrial floors, Roads, Taxi ways, Hangars etc.

Structural Concrete: Foundations (Deep & Shallow), machine foundation, slabs, Col-beams and lintel, bridge decks & girders etc.

Water retaining structures: RCC retaining walls, cross drains, swimming pools, Hydel projects, checkdams, canal lining, ETPs, Jetty, Ports, Spillways etc.

Water proofing in roof top, sunken toilets etc.

Shot Crete: Tunnel Lining, Slope Stabilization, Rehabilitation etc.

b) Mortar:

Plaster: Internal & External, Stucco etc.

Water Proofing: Brickbat coba, Polymer Coatings etc.

Gunniting: Repairs & Retrofiting

c) Pre-cast Materials: Hollow and solid blocks, pavers, tiles, railway sleepers, hume pipes and other CC pipes

FOR DETAILED INFORMATION CONTACT

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The information in this brochure is believed to be accurate. Performance data was obtained in a specific environment and also is believed to be accurate and reliable. Reliance Industries Limited does not warrant the properties or performance of Recron® 3s based concrete products that are designed, manufactured, or tested in environments over which we have no control. Persons receiving this information should make their own tests to determine suitability for their particular use.

Size: 8" x8"

Bureau of Indian Standards has now allowed usage of fibres as per amendment No. 3, August 2007 of IS 456:2000 - Codes of Practice.

Conforms: IRC SP 76, 2008 - IRC 44, 2008