

## SPECIFICATION FOR

# ANTI-CRACK

### INTRODUCTION

**Anti-crack fibre** is an engineered alkali-resistant (AR) glass fibre designed to reduce plastic shrinkage cracking in concrete and mortars. **Anti-Crack fibre** is available either in bulk packaging or in 600 grams bags. Water/cement ratio, aggregates and sand size variation are some of the parameters which influence concrete shrinkage. **Anti-Crack fibre** significantly limit the risk for concrete to crack due to the variations of above parameters.

**Anti-Crack fibre** also improves durability and overall physical properties of concretes and mortars.

**Anti-Crack fibre** fully disperses into individual filaments when incorporated into the mix. 455 grams dose of fibre provides a maximum of distributed reinforcing filaments, minimizing the distance between filaments, and helps in resisting the formation of cracks.

Once distributed in the mix the fibres are virtually invisible. They will not protrude through the surface, and require no additional finishing steps. Specifically developed for the reinforcement of cement and concrete products. Also highly resistant to acids and other chemicals.

### REQUIREMENT

**Anti-crack fibre** is suitable for tunnelling, mining, rock stabilization, landscaping and concrete with unpredictable tension. Anti-crack reduced rebound compared with steel. Far more versatile and easy to process than steel or PP fibres. It is non-combustible and no rust. Fibre benefits high strength and elastic modulus, tensile strength greater than steel and it has acid and alkali resistance. No health hazard, fibres are not inhaled. UV and temperature resistant. Anti-crack fibre controls shrinkage cracking in fresh and hardened mortars. It provides higher compressive strength and flexural toughness than PP fibre. Concrete with anti-crack fibre is non-combustible can improve fire performance.

### PRODUCT TO USE: ANTI-CRACK FIBRE

How to specify: Anti-crack fibre is specifically designed for reducing temperature and shrinkage cracking in concrete and mortars. The addition rate shall be a minimum of 1 to 2 pounds per cubic yard (0.6 to 1.2 Kg per cubic meter) of concrete.

The fibres control cracking caused by plastic shrinkage, plastic settlement, and thermal expansion and contraction in concrete. The fibres will also contribute to decrease the permeability and to increase the resistance to impacts, abrasion, and shattering.

**NOTE:** Add Anti-crack fibre at any time prior to pouring at the plant or on site. Mix for 3 to 5 min on mixing speed after fibres are added. Do not add water and increase joint spacing.

### STORAGE

Anti-crack fibre product should be stored in a dry place in its original Packaging. Do not stack the pallets more than 2 meter high.

### WHERE RECOMMENDED

Alternative system to traditional reinforcement when used for secondary (crack control) reinforcement in concrete. Residential and commercial slabs, walkways, driveways, pavements, Elevated slabs, Cellular concrete, Mortars, Floors, Renders, Coatings, Paints and Precast concrete.

The information and recommendations herein are, as result of experience and testing, accurate to the best of the seller's knowledge. However, as the proposed use and the circumstances surrounding such use are not known to the seller, it does not guarantee or warrant the product's suitability in any particular instance and shall not be liable for any loss or damage consequent upon any use whatsoever unless the seller otherwise stipulated the product's suitability for a particular use in writing signed by a Director of the seller.

**APPLICATION: CONTACT CEMENTAID FOR SUPPLY AND APPLICATION SERVICE**