

TECHNICAL DATA SHEET



DESCRIPTION

Safe Hardcrete Precast Hardener High-Performance Hardener for Precast Concrete Components: Safe Hardcrete Precast Hardener is a high-efficiency admixture designed to accelerate setting time, enhance surface finish, and improve durability in precast concrete products. Its advanced formula ensures optimal strength gain and water resistance, making it ideal for precast structures requiring high performance and dimensional stability.

KEY BENEFITS

- Fast Strength Development: Reduces demolding time and speeds up production cycles
- Superior Surface Finish: Achieves smooth, crack-free, and uniform textures
- Enhanced Durability: Improves compressive strength, abrasion resistance, and longevity
- Optimized Workability: Facilitates precise molding for intricate precast designs
- Improved Weather Resistance: Reduces moisture sensitivity and shrinkage, ensuring long-term stability

AREA OF APPLICATION

- ✓ Interlocking pavers, Precast pipes, slabs, and blocks
- ✓ Structural and architectural precast elements
- ✓ Utility products like manholes, poles, and drainage systems
- ✓ Decorative and infrastructure precast components

TECHNICAL PARAMETERS

Property	Specification
Appearance	Greenish Blue colored liquid
Density	1.40 - 1.45
pH Value	8 - 10
Dosage	0.3% - 0.8% by weight of cement (adjustable as per application)
Setting Time Reduction	20% - 40% faster than conventional concrete
Compressive Strength	Enhances by 15-25% over untreated concrete
Water Reduction	Improves workability by lowering water demand

APPLICATION GUIDELINES

1. Pre-Dilution: Recommended to mix with water before addition.
2. Direct Addition: Add Safe Hardcrete during mixing phase for uniform dispersion.
3. Optimal Dosage: Adjust based on desired setting time and strength.
4. Compatibility: Compatible with Portland cement, Portland Pozzolana Cement and other precast additives.

MIXING

SAFEHARDCRETE is supplied in a ready to use form. For better homogeneous mixing Shake Well & add this in water which will be used for concrete mix.

Note: Do not add high dosage than recommended.

PACKAGING

SAFEHARDCRETE is available in Pack size of 1, 5, 10, 20 & 50 Liter. Packaging size may vary subject to local regulations and customer requirements.

STORAGE & SHELF LIFE

SAFEHARDCRETE should be stored at room temperature (min 10°C and max 40°C). Kept in dry and away from sunlight. Shelf life is 5 years if stored as specified. Protect from wet and rainfall areas.

PRECAUTIONS & LIMITATIONS

Do not add SAFEHARDCRETE directly to dry cement & aggregate mix. Maintain water-cement ratio as low as possible.

HEALTH & SAFETY

SAFEHARDCRETE is not a health hazard or fire risk. Spillages should be washed immediately to avoid possibilities of slipping. Use rubber hand gloves & safety goggles, while using SAFEHARDCRETE. In case of contact with Eyes & skin, wash with plenty of water. Keep out of reach of children.