

ROCKRETE 27 HE

PRODUCT CODE : 112

HIGH PERFORMANCE SUPERPLASTICIZER

PRODUCT DESCRIPTION

ROKSO ROCKRETE @ 27 HE is a third generation superplasticizer for concrete and mortar.

USES

ROKSO ROCKRETE @ 27 HE is specially suitable for the production of concrete mixes which require high early strength development, powerful water reduction and excellent flowability

ROKSO ROCKRETE @ 27 HE is mainly used for the following applications:

- Precast concrete
- Fast track concrete
- In situ concrete requiring fast stripping time
- Self Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

ROKSO ROCKRETE @ 27 HE as a powerful superplasticizer acts by different mechanism. Through surface adsorption and sterical effects separating the binder particles the following properties are achieved:

- ✓ Pronounced increased in the early strength development, resulting in very economic stripping times for precast and in situ concrete
- ✓ Extremely powerful water reduction, resulting in high density, high strength and reduced permeability for water etc.
- ✓ Excellent plasticizing effect resulting in improved flowability, placing and compacting behaviour
- ✓ Reduced energy cost for steam cured precast elements
- ✓ Especially suitable for the production of Self Compacting Concrete (SCC)
- ✓ Improved shrinkage and creep behavior
- ✓ Reduced closer times for repair of roads and runways
- ✓ **ROKSO ROCKRETE @ 27 HE** does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced and pre stressed steel

TESTS

Approval / Standards	IS 9103 – 1999, ASTM C494, EN 934-2 and SIA 262 (2003)
Product Data Form Appearance / Colour	Light brownish liquid, clear to slightly cloudy

TECHNICAL DATA

CHEMICAL BASE	Aqueous solution of modified poly carboxylate
Relative Density	~1.08 kg/l at 25°C
pH Value	= 6

APPLICATION DETAILS

CONSUMPTION / DOSAGE :

- Optimum dosage of **ROKSO ROCKRETE ® 27 HE** should be determined by site trials.
- Recommended dosage : 0.2 – 2.0% by weight of cementitious.
- A higher dosage might be used if agreed by client or consultant. Stir well before use

APPLICATION CONDITIONS / LIMITATIONS

- **COMPATIBILITY : ROKSO ROCKRETE ® 27 HE** may be combined with many other ROKSO® Products. **Important:** Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

APPLICATION INSTRUCTIONS

■ DISPENSING :

ROKSO ROCKRETE ® 27 HE can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of **ROKSO ROCKRETE ® 27 HE** to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

■ APPLICATION METHOD / TOOLS

By use of **ROKSO ROCKRETE ® 27 HE** concrete of highest quality can be produced. The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Fresh concrete must be cured properly and curing applied as early as possible.

■ CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

■ NOTES ON APPLICATION / LIMITATIONS

Excessive water addition or overdosing may cause bleeding or segregation. If frozen and / or if precipitation has occurred, **ROKSO ROCKRETE ® 27 HE** may be used after thawing slowly at room temperature and after intensive mixing.

■ VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

■ HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

■ PACKAGING

100 and 200 Kg in HDPE barrels. Storage Conditions / Shelf -Life 12 months from date of production if stored properly in unopened, original sealed

Manufactured in INDIA by

ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2015 CERTIFIED COMPANY

ADMN.OFFICE: 605, SAI JANAK CLASSIC, ABOVE MURLIDHAR SWEETS, NEAR FLYOVER BRIDGE, DEVIDAS LANE, BORIVALI (W) MUMBAI-92

REGD OFFICE : 202, MADHUVAN, SHRI KRISHNA COMPLEX, NR. SHRIRAM NAGAR, VIVA COLLEGE RD, VIRAR (WEST) DI : PALGHAR -401303 MS

E-MAIL : info@roksoindia.com / WEB SITE : www.roksoindia.com

The data & guidelines provided hereabove is based on compiled information which we believe reliable. Users are requested to test all the applications independently before commercial use. This data & informations are non binding & we donot assure any liability for failure of any guidelines or performance of the product as correct identification of the problem, quality of the other materials & on-site workmanship are factors beyond our control.