

KingPro® DynaCrack1000

Environmentally safe, non-explosive agent for controlled concrete demolition

DESCRIPTION

KingPro DynaCrack1000 This non - explosive demolition agent is a safe, environmentally friendly, and efficient solution for the controlled breaking of mass concrete, rock, walls, and piers. Designed to replace traditional demolition methods like blasting or heavy machinery, it enables precision work without noise, vibration, or pollution.

APPLICATIONS

- ☒ Demolition of mass concrete structures, walls, and piers.
- ☒ Controlled breaking of rocks in urban or sensitive environments.
- ☒ Excavation projects in noise-restricted areas (e.g., hospitals, schools).
- ☒ Situations where explosives are restricted or impractical.
- ☒ Removal of reinforced concrete with minimal damage to surrounding structures.

ADVANTAGES

- ☒ Non-Explosive: Eliminates risks associated with explosive materials.
- ☒ Low Pollution: Environmentally friendly with minimal dust, noise, and vibration.
- ☒ Safe and Easy to Use: No special licensing or permits required for handling.
- ☒ Controlled Results: Breaks materials in a predictable manner.
- ☒ Cost-Effective: Reduces labor and equipment costs compared to traditional methods.

STANDARDS

KingPro DynaCrack1000 complies with EN 1504, Part 3, Class

METHOD OF USE

- ☒ Preparation: Ensure the area is clean and free from debris.
- ☒ Drilling: Drill holes in the target structure according to the pattern specified:
- ☒ Hole diameter: 30–40 mm
- ☒ Hole depth: 80–90% of the concrete/rock thickness
- ☒ Hole spacing: 20–40 cm, depending on the strength of the material.

TECHNICAL PROPERTIES

Property	Test results
Appearance	Gray Powder
Density	2.0 g/cm ³
Water Requirement	30–35% (by weight of powder)
Expansion Pressure	Up to 60 MPa
Initial Reaction Time	30–60 minutes at 25°C
Full Expansion Time	12–24 hours
Working Temperature Range	5°C to 40°C
Toxicity	Non-toxic, no hazardous fumes

MIXING:

- ☒ Mix (product name) with clean water in a ratio of 30–35% by weight.
- ☒ Stir well to achieve a lump-free slurry.

PLACING AND FINISHING

Filling:

- ☒ Pour the mixture into the pre-drilled holes. Do not overflow.
- ☒ Curing Time: Allow 12–24 hours for full expansion and cracking. The timing depends on temperature and material density.

NOTES:

- ☒ If application is done under high temperatures (> 40°C), care should be done because the working time will be reduced significantly.
- ☒ To reduce the effect of this problem, try to store the unmixed materials in a cool environment, avoiding the direct sunlight. Also, try not to make the application in the middle of the day or direct sunlight.

CLEANING

All tools should be cleaned immediately after finishing using a suitable epoxy thinner. Hardened materials should be cleaned mechanically.

PACKAGING

KingPro DynaCrack 1000 is available in 20 kg and 1 kg packs.

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YIELD

Approximately 10 litre per 20 kg pack, 15 litre per 30 kg pack and 50 litre/100 kg pack.

STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

HEALTH AND. SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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