



TEKAMAL SANIRKIT

Fast-setting patching mortar

PRODUCT DESCRIPTION AND USES

Tekamal Sanirkit is an aluminate cement-based, fast-setting and rapid hardening hydraulic mortar. It sets in 20-30 minutes, depending on the temperatures of the mixing water, mortar, ambient and the surface onto which it is applied. Low temperature will retard the setting, whereas high temperature will accelerate the setting.

The product is used for:

- filling and sealing pores and surface imperfections to lock in water,
- patching and filling spalled concrete where reinforcing rods are exposed and corroded,
- restoring disintegrated surfaces of old concrete and brick masonry that have become soft and porous,
- patching concrete pipes, patching precast concrete, etc.

ADVANTAGES

- The material is prepacked, requires only mixing on site.
- Fast setting: ca. 20 - 40 minutes.
- Does not contain chlorides.
- Durable.
- Excellent structure strength.
- Easily applied.
- Non-toxic.

APPLICATION

• PREPARATION

The areas to be repaired have to be free from all unsound material, i.e. dust, oil, grease, corrosion by-products, organic growth. All loose materials have to be removed with wire brush, hammer, needle gun, sandblasting, etc.

• MIXING

Water: approx. 0,20 l / 1 kg

Add water to the dry **Tekamal Sanirkit** during intensive, fast mixing. Mix only as much material as you can use in 20 - 30 minutes.

Important:

- **Tekamal Sanirkit** may only be mixed with clean water.
- **Tekamal Sanirkit** sets about 30 minutes on 20°C.
By cold weather conditions: use warm mixing water, keep material warm.
By warm weather conditions: use cold or even ice-cold water to delay setting, cool surface to which material is to be applied with cold water, mix small batches and use quickly.
- Do not remix **Tekamal Sanirkit** when setting begins – in this case, it will never get hard.
- Do not apply **Tekamal Sanirkit** in hot place; sprinkle with cold water after placing.
- Do not apply **Tekamal Sanirkit** on frozen or frost-covered areas – frost must be removed by heating.



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• PLACING

To patch spalled concrete: the prepared area to be repaired has to be thoroughly washed with water before filling it with **Tekamal Sanirkit**. Mix **Tekamal Sanirkit** with clean water and apply with a brush on the reinforcing rods and concrete within the patching area. Slush the mixture under rods, between steel rods and over old concrete surface. All previously embedded steel should be thoroughly covered with a brush coat before filling the patch with a heavier, trowel coat of **Tekamal Sanirkit**. **Tekamal Sanirkit** must be placed and levelled within ca. 15 minutes after mixing with water. No forms are needed. Apply in successive 1,5 cm to 2,5 cm layers. Scratch the first layer, cool with water and apply the second layer within 30-40 minutes. If the patch gets hot and turns light grey, cool by wetting. Keep the patch damp for 20-30 minutes after the filling to complete the curing.

To patch floors and curbs: the edge of disintegrated surfaces to be patched should be cut at right angle ca. 5 mm deep. Dampen the clean surface and apply a heavy brush or slush coat of **Tekamal Sanirkit**, making sure all pores and cracks are filled. Complete with a trowel coat of **Tekamal Sanirkit**. If area to be patched is greater than 2,5 cm in depth, the material should be applied in 2,5 cm layers. Dampen the first application with water before applying the second one. When the material has hardened sufficiently, i.e. it is no longer soft or tacky, place burlaps saturated with water over the patched area and keep for ca. 1 hour to enable perfect curing. **Tekamal Sanirkit** generates considerable heat if used in larger quantities, therefore it is necessary to keep the material cooled with water until heat has been dissipated. Light traffic can be conducted over the patched area after 1-2 hours, but the longer it is cured, the better results can be obtained.

• CLEANING THE TOOLS

Clean with water immediately after use!

COVERAGE

- approx. 2,0 kg/m²/mm coating thickness

PACKING

- 25 kg sacks

STORAGE

- Store the product in dry and well-ventilated places, protected from damage and humidity.
- In tightly closed and undamaged packaging, the shelf life of the product is min. 6 months from the production date.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

SAFETY PRECAUTIONS

- Because it contains cement, **Tekamal Sanirkit** irritates the skin and eyes and may cause allergic reactions if it comes into contact with skin.
- When handling the product, protective gloves and goggles should be used.
 - Do not breathe in dry powder.
 - Use a protection mask when handling dry powder.
 - Eating, drinking or smoking during work is prohibited.
 - After finishing work, hands should be thoroughly washed with water.

NOTE

Instructions are given on the basis of examinations and technical experience of the firm. Due to specific conditions and work methods, preliminary tests are advised for every type of use. Since we cannot influence the course of work, we cannot be held responsible for its quality.