



NanoMortar R

Polymer-modified, cementitious, multipurpose, patching & repairing mortar

Description

NanoMortar R is a single-component, rapid-setting, repair mortar for use on new and existing concrete and masonry surfaces. This product is designed for the reconstruction of damaged vertical and overhead concrete and masonry structures, both interior and exterior. NanoMortar R can also be used in light-duty, pedestrian, horizontal applications. The light color of NanoMortar R closely resembles aged, sun-bleached concrete.

Primary Applications

- Vertical and overhead repairing of scaled and spoiled concrete
- Resurfacing of damaged concrete
- Repair of honeycombed surfaces
- Parking structures & bridges
- Retaining walls
- Ceilings and sloped surfaces
- Large placements

Features / Benefits

- Single component requires the addition of water only
- High compressive strength
- Excellent resistance to freeze-thaw cycling and de-icing salts
- Suitable for both interior and exterior applications
- Excellent bond to sound concrete
- Compatible with galvanic anodes

Properties

Appearance	Grey powder
Density	2.00kg/ltr (fresh mortar)
Mixing ratio	2.8-3.0 Ltr water / 20 kg bag
Pot life	50 minutes approx at 20°C
Yield	10 Ltr/20kg bag Approx.
Layer thickness	5-20mm per application
Substrate temperature	5-40°C
Mechanical Strength at 28 days	
Compressive Strength	40N/mm ² (ASTM C 109)
Flexural Strength	8N/mm ²
Bond Strength	>2N/mm ² (BS 1881)

Packaging

20 kg bags.

Storage

Store in a dry and cool place below 35°C. Protect from direct sunlight.

Shelf life

1 year in original, unopened packaging.

Instruction for use

Surface Preparation:

Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a minimum surface profile of CSP 5 - 7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming:

Clean and prime exposed steel with NanoBond SBR. The NanoBond SBR primer coating must be allowed to fully dry prior to the placement of NanoMortar R. Concrete should be primed with a spray or brush coat of NanoBond SBR. Alternately, a saturated surface dry (SSD) concrete surface can be primed with a scrub coat of NanoMortar R. The repair must be made before the scrub coat dries out.

Mixing:

Single bags may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 16°C to 32°C. Add the appropriate amount of water for the batch size and then add the dry product. The mixed product should be quickly transported to the repair area and placed immediately.

Placement:

Place NanoMortar R onto the prepared concrete or masonry surface while the bond coat is still wet. Float or trowel flush with adjacent surface and allow to set. Finish to match the surrounding surfaces.

Curing:

Follow ACI guidelines for curing. In the case of high temperatures, high wind, or low humidity causing rapid surface drying, use a fog curing system or a water based curing compound. Do not use solvent based curing compounds.



NanoMortar R

Polymer-modified, cementitious, multipurpose, patching & repairing mortar

Cleaning & Disposal

NanoMortar R may be removed from tools and equipment with water before the dries. Don't dispose of into water or soil but according to local regulations.

Precautions/Limitations

Only mix as much material that can be used with in pot life.
Do not add more water, re-temper or over-trowel.

Health & safety

In case of contact with the skin, wash immediately with soap and water. In case of contact with the eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting. Skin barrier cream, safety goggles and rubber gloves are recommended. carried out in accordance with local legislation under the guidance of the local waste regulatory authority.