

REC SEAL 512M

MINERAL-BASED WATERPROOFING SLURRY

DESCRIPTION

REC SEAL 512M is a single component, cementitious, polymer-modified water proofing slurry designed to protect concrete, masonry, and mineral substrates against moisture, seepage, and water pressure. When mixed with water, it produces a smooth, brushable or trowelable slurry that forms a dense, rigid, and vapor-permeable waterproof coating after curing. Its high adhesion strength, sulphate resistance, and durability make it suitable for long- term sealing of structures exposed to ground moisture, intermittent water pressure, and aggressive environmental conditions. **REC SEAL 512M** integrates naturally with cement- based substrates and is easy to apply, making it ideal for a wide range of waterproofing applications.

PRIMARY APPLICATIONS

REC SEAL 512M is suitable for waterproofing and protection of:

- Basement walls, foundation walls, and retaining walls.
- Concrete and masonry structures in contact with soil.
- Water tanks, reservoirs, septic tanks, lift pits, and pump rooms.
- Plinth areas, boundary walls, and wet areas.
- Internal and external surfaces exposed to dampness or seepage.
- Concrete roofs, terraces (below screed), and podium slabs.
- Underground structures subjected to ground moisture or mild water pressure.

FEATURES/BENEFITS

- **Single-component system** – mix with clean water only, easy to use.
- **Excellent adhesion** to concrete, masonry, and mineral surfaces.
- **Resistant to sulphates, aggressive water, and environmental aging.**
- **Vapor-permeable** – allows substrate to breathe, preventing blistering.
- **High durability against freeze–thaw cycles** and moisture movement.
- **Works on Matt-damp surfaces** – no primer required in most cases.
- **Suitable for positive and limited negative side waterproofing.**
- **Non-toxic and cement-based**, making it suitable for potable water structures when applied as specified.
- **Economical** waterproofing solution for both new construction and repair work.

TECHNICAL INFORMATION

Product Type	Single component
Density (kg/m ³)	1.85
Consistency	Paste, non-slump
Base material	Pre mixed dry powder
Watertightness (PG MDS / FPD)	Pass
Tensile Adhesion Strength (DIN EN 1542) (N/mm ²)	≥ 0.5
Reaction to Fire Classification (DIN EN 13501-1)	E
Mixing Time (Minutes)	Approx. 3
Water Addition	25%
Substrate/Application Temperature	5–35°C
Maximum Layer Thickness per Application (mm)	Up to 1
Consumption per mm Layer (kg/m ²)	Approx. 1.75
Foot Traffic Ready (Hours)	18
Curing Period	7 Days

DIRECTIONS FOR USE

SURFACE PREPARATION

Before applying **REC SEAL 512M**, the substrate must be structurally sound, clean, and free from any materials that may reduce adhesion, such as dust, dirt, oil, grease, paint, curing compounds, or efflorescence. All loose or weak areas must be chipped away and repaired using an appropriate cementitious repair mortar. Any cracks, holes, or honey combed sections should be filled and leveled prior to coating. The surface must be roughened slightly to improve mechanical bonding, especially on very smooth concrete. After cleaning and repair, thoroughly pre-wet the substrate with clean water until it becomes uniformly Matt-damp. The surface should not have standing water; excess moisture should be removed. Proper pre-wetting ensures that the substrate does not absorb water too quickly from the slurry, allowing for optimal adhesion and curing.

MIXING

REC SEAL 512M is mixed by adding the measured quantity of clean potable water into a mixing container, then gradually pouring in the powder while continuously stirring with a low-speed mechanical mixer. This ensures a smooth, homogeneous slurry without lumps. Mixing should continue for about 2–3 minutes until the desired consistency is achieved. Allow the mixture to stand for a few minutes (known as maturing time), then briefly remix before application. The material should be used within its pot life—typically about 60 minutes—so mix only the amount that can be applied within this time. Do not add extra water after the mixture has begun to stiffen, as this weakens the final waterproofing layer.

APPLICATION

The first coat of the slurry is applied while the surface is still Matt-damp. It may be brushed, trowelled, or spray-applied depending on site requirements. When using a brush, work the material firmly into the substrate in one consistent direction to ensure full pore coverage. After the first coat has sufficiently hardened—usually 4 to 6 hours depending on temperature and humidity—a second coat is applied at right angles to the first. This cross-layering method ensures complete coverage and strengthens the waterproofing membrane. Each coat must be applied evenly, avoiding overly thick layers in a single pass to prevent cracking. In areas exposed to higher water pressure or constant moisture, a slightly increased total thickness may be necessary, applied in multiple controlled coats.

CURING AND PROTECTION

After application, the coated surface must be protected from rapid drying, direct sunlight, strong winds, frost, rain, and contamination. The material should be allowed to cure naturally without forced drying. Under normal conditions, light foot traffic is possible after about 18 hours, but full waterproofing performance develops after proper curing, typically around 7 days. During this period, avoid mechanical damage or exposure to standing water until the coating has fully hardened.

CLEANING OF TOOLS

All tools and application equipment should be cleaned immediately after use with clean water. Once **REC SEAL 512M** has hardened on the tools, it becomes very difficult to remove, so prompt cleaning is essential.

PACKAGING

REC SEAL 512M is available in 25 Kg bag.

STORAGE

Store **REC SEAL 512M** in its original, unopened packaging in a cool, dry place away from moisture. Avoid direct sunlight and keep bags elevated off the ground. Under proper storage conditions, the shelf life is up to 12 months. Once opened, use the product as soon as possible to avoid moisture absorption.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

NOTE

The information included on this Technical Data Sheet is the sole property of Reckon Chemicals Pvt Ltd, Lahore. The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.

WARRANTY: The Reckon Chemicals (Pvt.) Ltd. (Reckon) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Reckon, no other representations or statements made by Reckon or its representatives, in writing or orally, shall alter this warranty. Reckon MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Reckon product fails to conform with this warranty, Reckon will replace the product to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Reckon does not authorize anyone on its behalf to make any written or oral statements which in any way alter Reckon's installation information or instructions in its product literature or on its packaging labels. Any installation of Reckon products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Reckon's products for the Buyer's intended purposes.

RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Toll: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

