

MaxProof® 444

Cement-based waterproofing coat

Description

MaxProof 444 is two component, cement-based, acrylic polymer modified waterproof coating for concrete, masonry and cement-based substrates.

Features and benefits

- High bond strength to most common construction materials.
- Provides semi-flexible, durable waterproof coating.
- Allows the passage of water vapour through the structure. Concrete will still be able to "breathe".
- Resist occasional foot traffic.
- Non-toxic.
- Can be applied to 24 hour-old concrete.

Recommended for

- Wet areas such as showers, bathrooms, toilets, kitchens and balconies.
- Foundations & retaining walls protection.
- Even out variations in concrete surfaces.
- Protects reinforced concrete from carbonation and chloride attack.

Composition

MaxProof 444 Powder is a blend of high strength Portland cement, well-graded sands and additives to enhance workability, water-repellency and adhesion.

MaxProof 444 Liquid is based on acrylic polymers and modifiers.

Packaging

MaxProof 444 is available in 20 kg double pack (15 kg/bag powder + 5 kg/jerrycan liquid).

Coverage

From 0.75 to 0.9 kg/m²/coat.
(2 coats minimum are required).

Note:

Coverage rate takes no account of wastage and may vary according to the type of surface involved.

Technical data

Wet density	1.95 kg/liter
Water permeability CRD C48	2 bar*
Pot life	45 minutes at 20°C.
Time between coats	6 hours minimum @ 20°C
Colors	Grey - white

*Un permeable at 2 mm application thickness.

Surface preparation

Substrates should be sound and free from dust, laitance, paints, curing compound or any other contaminates. Concrete substrates should be cured to obtain 80% of the design strength. Mechanical surface preparation is recommended. This is best obtained by using high pressure water treatment or grit blasting. Then, surface must be thoroughly washed with clean potable water to remove all dust and loose particles.

Patch all leaking static cracks and holes using **MaxPlug 410**. Patch other static cracks and surface defects using appropriate ACC repair product. Treat moving cracks and voids with appropriate sealant. Please contact ACC Technical Department. Extremely smooth surface should be roughened and open-pored to ensure good adhesion of **MaxProof 444**.

Mixing

Blend 15 kg of **MaxProof 444** Powder into 5 kg of **MaxProof 444** Liquid. The quantity of the liquid may vary slightly according to weather conditions.

For best results, mechanically mix **MaxProof 444** using mixing paddle fitted to slow speed drill. Gradually add the powder to the liquid while mixing. Mix until a lump-free, heavy batter consistency is achieved. MIX AND USE. Mix material that can be applied within 45 minutes (pot life). Partial small amounts may be mixed manually using suitable hand tools.

Application

ACC Construction Chemicals, L.L.C.

Headquarters & factory: Plot (8), Block (32), 2nd. Industrial Zone, Borg Al Arab City, Egypt.

Tel./fax: 035226004 – Customer service: 01288593311 – email: contact@acc.com.eg

Always apply **MaxProof 444** using stiff brush to a prepared damp substrate. High-suction substrates require more dampening than dense substrates. Completely dampen down the substrate with water prior to **MaxProof 444** application. Do not saturate the substrate but keep it cool and damp throughout the application. Ensure that there is no free-standing water at the time of application.

First coat

Work the first coat uniformly into the substrate to completely fill and cover all the substrate. Do not spread the material too thin. Brush it well into the surface and finish it in one direction for neat appearance. On concrete substrates, leave the first coat to dry overnight before applying the second coat.

Second coat

Dampen the first coat and remove excess moisture prior to applying the second coat. Apply the second coat exactly as mentioned above onto the first coat and finish it in one direction preferably in the opposite direction to the previous coat.

Curing

Air-dry circumstance is recommended for curing **MaxProof 444**. In hot weather or excessive drying conditions, fog-spray after initial set has taken place.

In cold weather or unventilated areas, it may be necessary to leave the application for a longer curing period. Never use curing compounds or de-humidifiers.

Finishing

In case that paints will be applied on top of **MaxProof 444**, it should be left to cure for at least 7 days. Do not use solvent-based paints. Where cement-based render finish is required, it is essential to apply a rough coat (spatter dash coat) of cement-based mortar modified with **UniBond LX** onto the final coat of **MaxProof 444** while it is still tacky. In areas

where ceramic tiles will be installed on top of **MaxProof 444** such as wet areas and swimming pools, use **UniFix 303** or **UniFix 308**.

Cleaning

Clean hands and tools with warm water immediately after use. Cured material may be removed mechanically

Storage and shelf life

If stored unopened in a dry place at a temperature between +5°C and +30°C away from sources of heat and moisture, shelf life is 12 months from the date of manufacture printed on the pack.

Health and Safety

MaxProof 444 Powder contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention.

MaxProof 444 Liquid is not considered dangerous according to the current regulation regarding the classification of mixtures. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children. For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.