

OzoneSeal-550

A highly flexible two part waterproofing cementitious coating

Description:

OzoneSeal-550 is a two part flexible water proofing & protective coating, composed of best quality Portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. OzoneSeal-550 has very high elongation which makes it suitable for all types of waterproofing in extreme conditions. OzoneSeal-550 react chemically after mixing to form a hard and flexible film which bonds tenaciously to most concrete or masonry substrates. OzoneSeal-550 prevents intrusion of water, yet allows entrapped moisture to be released.

Uses:

- Cast-in-place and pre-cast concrete.
- Brick, block, stucco, unglazed terra cotta.
- Porous stone, masonry substrates.
- Exterior or interior,
- Above or below grade applications.
- All types of structures in industrial, commercial and residential areas, coastal environments.
- To reface and even out variations in concrete surfaces.
- Waste water treatment plants.
- To protect exposed steel rebars from corrosion.
- As a waterproof coating for roofs.
- To provide protection to concrete surfaces from carbonation and chloride attack.
- As a lining for water retaining structures.
- Potable water tanks.
- Basements, terraces, balconies and roof gardens.
- Retaining and sea walls
- Swimming pools.
- Sealing hairline cracks, not subjected to movement.
- As a baking to marble, tile and granite to prevent water ingress and thus alleviate surface staining.

Advantages:

- OzoneSeal-550 is highly resistant to standing water or wind driven rain and is intended for use on vertical and horizontal surfaces
- Waterproof, Allows water vapor to escape from the structure
- Highly resistant to the effects of long term weathering
- Durable in all climatic conditions
- Non-toxic
- Excellent bond to concrete and masonry
- Does not require over coating
- 500% elongation makes this product matchless
- OzoneSeal-550 can be applied on 24 hour old concrete thereby giving immediate protection
- Very good alkali and efflorescence resistant
- Approved for drinking water tanks

Properties:

Typical properties of mixed material:

Pot life at 20°C:	1Hour
Bridge crack up to 2mm:	Passed
Density:	1.4 Kg/ltr
Adhesion:	4 to 5 N/mm ² (ASTM D4541)
Modulus of elasticity:	19000 N/mm ² Approx
Coefficient of thermal expansion:	13.10-6 Approx
Hardness Shore A:	>83 (ASTMS 2240-91)
Flexural strength:	12N/mm ² (According to EN 196-1) 28 Days
Tensile strength:	7N/mm ² (According to DIN 53455) 14 Days
Elongation at break:	500% (ASTM D 412-92) 28 Days
Ponding Test	24 hours after application

Packaging:

40kg Kit (Powder 20kg+Liquid 20 Ltr), 20kg Kit (Powder 10kg+liquid 10 Ltr)

Storage:

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

Shelf Life:

12 months if stored properly in original unopened packaging.

Instruction for use

Surface preparation:

All surfaces to be coated must be clean and structurally sound. Chip, sand or shot blast, wet blast or high pressure water wash to remove all foreign matter, dust, dirt, paints, oils, grease, coatings, laitance or any other surface contaminants. All static cracks or breaks, voids or honeycombing larger than 1/32" should be cut out and repaired with polymer modified repairing mortar.

Mixing:

Shake well the liquid component to a homogenous milky color, before mixing transfer entire quantity of liquid component into a suitable clean mixing vessel, gradually start addition of powder component under constant mixing with a stirrer using a pneumatic or electric power tool (1kw) at slow speed at 250 – 300 rpm for 3-5 minutes to a homogeneous & uniform free flowing slurry.

Application:

Pre-dampen the substrate surface with water using a brush or spray bottle. High porosity substrates will require more dampening than dense substrates. Whilst the surface is damp, apply the material using a soft bristled brush (120mm-200mm wide). Application may also be made by roller, or spray machine. The first coat should be allowed to cure for a minimum of 5 hours at 20°C or 3 hours at 35°C prior to a second application, should it be required. If over coating is done more than 24 hours after applying the 1st coat, or the 1st coat has already dried out, the surface must be prewetted again.

For spray application the substrate should be prepared in the same manner as for brush application. The required film thickness can be achieved in one application.



Consumption:

Consumption: 1.1Kg - 2.2Kg/m²

Cleaning & Disposal

All tools and equipment should be washed with water immediately after use. Do not dispose off into water or soil but according to local regulations.

Precautions /limitations

Do not apply Ozone Seal-550 to surfaces that have not been properly cleaned or are unsound. Do not apply in rain or when rain is expected before initial set has taken place. Do not apply to frozen or frost filled surfaces or when the temperature is below (4°C). For additional Information contact with Ozone construction Chemicals LLC.

Health & safety

Ozone Seal-550 powder is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Ozone Seal-550 liquid is not classified as dangerous.

Ozone Seal-550 when mixed, becomes highly alkaline, wear suitable protective clothing, gloves and eye protection.

WARRANTY: Ozone products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. Ozone 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 Ozone product fails to conform with this warranty, Ozone will replace the product at no cost 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 period from the date of the claimed breach. Ozone does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ozone's installation information or instructions in its product literature or on its packaging labels. The user of the Ozone products must test the products for suitability for the intended application and purpose before proceeding with the full application of the products.