FRINICS CHEMICALS for THE CONCRETE SOLUTION!

ISO 9001

BUILDING CHEMICALS SPECIALISTS

Unipol Waterseal

Waterproofing Material

Product Data

Unipol Waterseal is supplied as dry powders composed of cement, silica and reactive chemicals which are mixed on site with water to form a slurry.

Typical Uses

Unipol Waterseal Concrete Waterproofer has been formulated to provide an inexpensive, penetrative treatment against moisture and water for new and old concrete and is effective on moist surfaces. Surface preparation is minimal and easy to apply. When applied to concrete the materials form insoluble crystal complexes in the capillary tracts and fine shrinkage cracks within the structure providing maintenance-free protection. The product is non-toxic and may be used in contact with drinking water and allows the passage of water vapour. Unipol Waterseal waterproofs and protects concrete against moisture and water and thus minimises the effects of frost.

- **Unipol Waterseal** protects concrete against moisture and water and thus minimises the effects of frost.
- The product is resistant to many salts, alkalies and seal water.
- **Unipol Waterseal** provides a long-term protection as the waterproofing chemicals become an integral part of the structure.

Preparation

The surface of the concrete must be clean, with all laitance, release agents, curing compounds and loose material removed. This may be done by high pressure water jetting or acid-etching. New concrete should cure for at least three days and the surface then scrubbed with a stiff wire brush. Pre-watering of the concrete is essential and should be sufficient to ensure the concrete is well saturated in depth. Any free-lying water on horizontal surfaces must be removed.

Mixing

The water should be added to the **Unipol Waterseal** and mixing continued until the slurry is free of lumps. More water should not be added when the slurry becomes too thick to apply.

Physical Data

Appearance	Cement grey powder, white can be supplied to special order.
Application Method	Brush
Mixing Ratio	One part Unipol Waterseal by volume is mixed with 0.4 parts water.
Theoretical Coverage	
Floor Slabs	1.0 - 1.5 kg/m² (in one or two applications)
Water Retaining Walls	1.0 - 1.5 kg/m² (in one or two application)
Pot Life	15 minutes
Initial Setting Time	2 minutes
Final Setting Time	17 minutes
Packing	Packed in 25 kg polythene bags.
Shelf life	Up to 12 months when stored in unopened containers at 20^0C

Application
Treated surfaces which are to be painted must cure for at least four weeks prior to decoration. The surface should then be neutralised with a 1:8 muriatic acid and water solution and thoroughly rinsed off with water. Where plaster finishes are required, it is essential that a sand/cement render is applied first whilst the **Unipol Waterseal** is still moist. The product is highly alkaline and plastic or rubber gloves should be worn during mixing or application.

Curing
Do not apply **Unipol Waterseal** if the temperature is likely to fall below 5^0C during or within 24 hours of application. It is essential that the treated surfaces are kept damp for at least five days following application. This may be achieved by lightly spraying with water or covering the surface with a polythene sheet or moist sand. Do not use chemical curing membranes.

Cleaning
Material should not be allowed to harden on the application apparatus and should be cleaned immediately after use.

Limitations
All products are manufactured to a high standard of quality. They are sold subject to Conditions of Contract or Sale - copy available upon request. Whilst Frinics Chemicals strives to ensure that any advice, information or recommendations given are appropriate and correct, it cannot, since it does not have complete control over the method and place of application of the products, accept any liability directly arising out of the use of products.

Health and Safety at Work
Warning and information concerning the safe handling and use of our products are displayed on their containers and in a Health and Safety data sheet. It is the Purchaser's responsibility to ensure that the materials are stored and handled safely.

Safety Precautions
Read each component's Material Safety Data Sheet before use. Mixed material has hazards of each component. Safety Precautions included with Application Instructions must be strictly followed during storage, handling and use.

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