

Dani Capillary Shield

Crystalline Penetration Capillary Water Proofing System

Description

DANI CAPILLARY SHIELD IS A SOPHISTICATED FORMULATION CONSISTING OF SPECIAL CEMENTS, QUARTZ SANDS AND ACTIVE CHEMICAL CONSTITUENTS, WHICH ARE CAPABLE OF MIGRATING DEEP INTO STRUCTURES. THE PRODUCT HAS THE APPEARANCE OF A FINE GREY POWDER, WHICH REQUIRES THE SIMPLE ADDITION OF WATER TO FORM SLURRY. DANI CAPILLARY SHIELD IS A MIGRATORY CRYSTALLINE WATERPROOFING COATING, WHICH REQUIRES THE PRESENCE OF MOISTURE IN THE SUBSTRATE IN ORDER TO CARRY OUT ITS FUNCTIONS.

◆ Typical Uses

Dani Capillary Shield can be applied to new or old structurally sound surfaces. It can be applied either to the negative or the positive side and will negate dampness and ground water permeation even under hydrostatic pressure. It can be used for the following application:

- Retaining walls and columns in underground reservoirs
- Swimming pools prior to tiling or painting
- Drinking water tanks
- concrete.
- Water treatment and sewage plants
- Support walls and columns
- Foundation slabs
- Underground cellars, basement, car parks, garages etc
- Pre-stressed and pre-cast concrete units
- Tunnel s, silos, irrigation channels
- Bathrooms, kitchens etc
- Sand-cement rendering
- Lift shafts

◆ MIXING

It is important not to mix more material than can be applied to the surface within 30 minutes at 20°C. The recommended mixing ratio approximately 2.5 to 3 parts to Dani Capillary Shield one part clean water by volume. Place the water in a suitable open top container and with the use of a slow speed drill and paddle add the powder to the water slowly. Mix until a homogeneous, lump free slurry is obtained. If the material becomes stiff due to an extended storage time do not re-mix with water but discard and mix a smaller portion.

◆ TECHNICAL DATA

Nature: Non toxic powder.
Colour: Grey.

◆ Surface Preparation

Dani Capillary Shield is only fully effective if the capillaries in the brickwork, concrete or mortar are sufficiently absorbent to allow penetration of the crystalline chemicals. Therefore, it is essential that adequate preparation is carried out prior to the application of Dani Capillary Shield. All surfaces should be clean and free from paint systems, oil, grease, loose dust, shuttering oils, curing compounds, surface hardeners and other contaminants. Surface preparation can best--be carried out using a high pressure water jet, grit blasting or mechanical scabbling. Water jetting has the advantage that complete saturation of the structure is achieved but lack of drainage facilities may in some cases preclude their use. Large cracks and other surface defects should be repaired. Repaired areas can be coated with Dani Capillary Shield 24 hours later but large areas of the new brickwork, poured concrete or cement renders should be allowed to cure for at least 3 days before application of Dani Capillary Shield is considered. It must be re-stressed Dani Capillary Shield that performs better on thoroughly dampened surfaces, only then is maximum penetration achieved. Dry surfaces should be saturated with clean water, preferably 24 hours before application of Dani Capillary Shield the and re-wetted with a mist spray if drying out occurs.

◆ APPLICATION

The problems which exist in the waterproofing of underground areas are many and various and all cannot be solved with a simple specification - if in doubt consult our technical department.

(Continue...)

However, for normal problems of damp or wet walls a two coat application of Dani Capillary Shield over the whole area will eliminate any further ingress of water. The second coat should be applied at right angles to the first to ensure that complete coverage is achieved and the second coat may be applied as soon as the first becomes 'touch dry'. In all cases the second coat must be applied within 24 hours of the first. In hot dry climates a fine water mist should be sprayed onto the surface of the Dani Capillary Shield before the second coat is applied. It is critical that all surfaces should be treated with Dani Capillary Shield and it is necessary that all timber battens be removed before treatment. Provision for re-fixing battens etc., should be made in the wall prior to the application of Dani Capillary Shield drilling for fixtures should not be carried out after tanking with Dani Capillary Shield as they would provide for release of pressure with resultant leakage of water. When applying by brush use a medium hard, short - bristle type. Trowelling of the second coat can be carried out to provide a dense polished finish. For large areas spray application is obviously more economical our technical department would be pleased to advise on suitable equipment.

◆ DECORATION

A period of at least six months should be allowed before permanent decoration is considered. During this period use only permeable emulsion paints.

◆ PACKAGING AND YIELD

Dani Capillary Shield is supplied in 20kg bags. Coverage by brush: 1 to 1.5 kg per m² per layer. By trowel: 2 to 2.5 kg per m² per layer. By spray: 1.5 kg per m² per layer.

◆ APPLICATION TEMPERATURE RANGE

Minimum surface temperature: +5°C

◆ STORAGE AND SHELF LIFE

Store in cool dry conditions

◆ HEALTH AND SAFETY

Dani Capillary Shield is a non-hazardous material - treat as for cement. Protect eyes and skin from direct contact. Freshly mixed Dani Capillary Shield is slightly alkaline, the use of PVC or rubber gloves is recommended. Seek medical advice if allergies develop.



Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in any connection with any recommendations or suggestions made by us, our representatives, agents, or distributors as the conditions of use and labor involved are beyond our control. Deviations are possible when delivery takes place. Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical data sheet supersedes previously issued information.