

## Data sheet IWBP 052009

### Description

Izonil Waterproof and Breathable Plaster provides a totally waterproof barrier, without the need for a membrane. Applied direct to walls it seals and prevents the ingress of water either side of the plaster while remaining vapour and air-permeable, allowing trapped moisture to evaporate. It does not contain harmful or flammable ingredients and so is environmentally friendly.

### Applications

Izonil W&B Plaster is designed for renovating and waterproofing old, listed and heritage buildings, cellars and basements. It provides a long lasting solution to problems caused by rising damp and moisture in conventional masonry. Applications include restoration and new render or repair work where it can be used to protect against damage caused by flooding. It is especially suitable for use in bathrooms, showers, wet-rooms and swimming pools or for rendering external walls, facades and plinths. Izonil W&B Plaster can be used on any conventional masonry such as brick, stone, blockwork and concrete and should be applied in layers to create a 15 to 30 mm thickness.

### Characteristics

Izonil Waterproof and Breathable Plaster is a high quality, cement/lime based, fibre reinforced, rendering and plastering mortar. Manufactured to strictly controlled specifications, it is supplied as a ready mixed powder that requires only the addition of water on site.

Izonil Waterproof and Breathable Plaster is a water and damp proof, vapour and air permeable, rendering and plastering mortar for masonry that meets the requirements of BS EN 998-1.

Depth of water penetration of hardened mortar:  $\leq 1$  mm  
Water vapour diffusion resistance coefficient ( $\mu$ ): 12.4  
Minimum thickness 15 mm  
Complete drying time 28 days in ambient conditions

### Characteristics

Continuous laboratory testing for composition and quality  
10 year guarantee on water resistance  
No need for membrane or any other additional layers  
Vapour-permeable, allowing trapped moisture to evaporate  
Easy to use - no special tools, skills or training are required  
More cost-effective than any other multi-layered solutions  
Applicable as above-grade or sub-grade insulation  
No bituminous or toxic ingredient

Izonil W&B Plaster is a fine grade mortar and so offers a 'one coat' solution providing undercoat and professional finish coat.  
NOT suitable for application onto plasterboards!

### Preparation

Before applying Izonil W&B Plaster it is important to always remove all existing render, plaster, loose particles, residual paint, dust, grease or other impurities. If used as a repair mortar the old render or

plaster should be removed 800 - 1200 mm above the boundary of water incursion. Jointing must be raked to a depth of 15-20 mm. Defective wall elements, such as damaged bricks, should be repaired or replaced, and all water intrusions must be stopped before plastering. Clean and pre-moisten the surface with clean water. In order to maximise cohesion a thin mixture of cement and water slurry must be applied all over the wall surface before plastering.

In case of high salt contents of the walls we recommend to use a salt neutraliser or salt inhibitor product which is designed for surface application. This product should be used immediately before a thin mixture of cement and water slurry. Do not use angle beds, because their fixings reduce the waterproofing abilities of the product.

Note - If there is any doubt about background suitability before plastering, trial a small area first. If adhesion is poor, apply the appropriate bonding agent prior to plastering.

## Mixing

Add 4.5 to 5 liters of clean water to each bag (25kg) of Izonil W&B Plaster. Mixing is recommended by hand, slow speed mixing drill or concrete mixer. Mix for at least for 3 to 5 minutes in the mixer until the mixture becomes smooth, thick, creamy consistency.

**Always mix a whole bag as one single mix and do not add anything else to the mix.**

Working time of approximately 1 to 2 hours

## Applying Izonil Waterproof and Breathable Plaster

Izonil W&B Plaster can be applied by trowel or mortar gun. Air and substrate temperature should be between +5°C – +25°C

**Apply in one single layer, 15mm thick or in 2-3 layers, 10mm thick per layer.**

Layer thickness should be checked regularly. Izonil W&B Plaster is ideal as a scratch and brown base coat. Izonil W&B Plaster must be cured for minimum 10-12 hours between layers.

Final layer can be finished with standard plastering tools, while the product is still workable.

## Curing and post application treatment

Drying time: 28 days

It is important to prevent Izonil W&B Plaster from drying too quickly. This can be achieved by applying a fog water spray. Sufficient moisture is required to permit continuous hydration of the cementitious materials and to minimise cracking. The effectiveness of the technique used will depend upon the local climate and working conditions. Walls exposed to direct sunlight and wind should be fog sprayed for seven days after plastering. During this process care must be taken to avoid erosion damage to plaster surface. The final layer of plaster may be painted with air-permeable paint.

When plastering extremely wet masonry with Izonil W&B Plaster there is a possibility of surface water aggregation.

This is natural and will disappear as the plaster sets – although you should remove any accumulated water from the floor; or from the walls with a clean oil and grease free cloth.

## Cleaning

Use water to remove Izonil W&B Plaster from tools and equipment. Hardened material can only be removed mechanically.

## Packaging

Izonil W&B Plaster is supplied in 25 kg paper bags.

## Coverage

Approximately 15 kg of dry mortar will cover 1 m<sup>2</sup> at 10 mm thickness, excluding allowances for loss wastage, surface profile and porosity. One 25 kg bag will cover up to approximately 1.1 m<sup>2</sup> with a 15 mm thick layer.

## Shelf Life

Izonil W&B Plaster will remain usable for up to 18 months if stored in its original packaging on wooden pallets or shelving in dry conditions.

## Safety, storage

Further information concerning storage, safety in transit and handling can be found in our Safety Data Sheet as shown on our website: [www.izonil.co.uk](http://www.izonil.co.uk)

### Important Note

The information, and, in particular, the recommendations relating to the application and end-use of Izonil products, are given in good faith based on Izonil current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.