



**STONEWARE
STUDIOS**

Pillmore ♦ Youghal ♦ Co. Cork
Tel 024 90117 Fax 024 90114
mail@stonewarestudios.com
www.stonewarestudios.com

Pura Technical Datasheet

**Non-flammable fibre-free hydrophilic mineral insulation board made of natural raw materials:
lime and sand, for the interior insulation of buildings.**

Fields of application:

Redstone PURA is an insulation board comprised of hydrated lime, silica sand and natural proteins. Redstone PURA is ideal for:

- Improving thermal performance of solid stone and brick walls.
- Facilitating breathability on solid wall construction.
- Preventing mould growth.
- Absorbing excessive room air humidity.
- Avoiding condensation build-up.
- Creating a healthy and comfortable indoor climate.

System components:

- Pura board made of lime and sand.
- MCS Adhesive - Breathable and capillary active, for attaching board to substrate.
- OC Plaster – Vapour permeable, capillary active plaster finish.
- Redstone mesh – for reinforcement of OC Plaster.
- Ejothem Stru Anchor plugs.
- Silicate Primer – Breathable liquid primer to regulate absorbency of board prior to plastering.

Features:

- Colour: Terracotta
- High capillary action.
- Non-flammable, A1 according to DIN 1402.
- Reduced heating costs.
- High alkalinity prevents mould growth.
- High permeability.
- Prevents condensation build-up.
- Very easy to cut and install.
- Improvement of air quality.
- Increases value of restored property.
- ecological manufacturing, low emissions, recommended for healthy living
- MPA and the ECO institute approved.

Technical data:

The technical specifications and instructions included in this document are all correct to the best of our knowledge and are provided in good faith. The content of this document presents neither an express nor an implicit guarantee regarding the performance of these products. Since the operating conditions and the method of use of our materials are not subject to our control, we can only guarantee that these products conform to our quality standards. This is why the warranty can only cover the quality of our products in terms of our general terms and conditions, and cannot cover successful processing. The right to change all technical information without prior notice is reserved. This technical data sheet shall replace all previous ones.



STONEWARE STUDIOS

Pillmore ♦ Youghal ♦ Co. Cork
Tel 024 90117 Fax 024 90114
mail@stonewarestudios.com
www.stonewarestudios.com

Material	White hydrated lime, silicon dioxide
Standard dimensions	58 x 38 cm per board (= 0.22 m ²) approx
Consumption	Approx. 4.5 boards per m ²
Board thicknesses	6 0 m m o r 1 0 0 m m
pH value	9.5
Moisture Sorption	U _{m,80} = 4.2 M%, U _{v,80} = 0.4 V%
Water absorption coefficient	w = 13.9 kg/m ² h ^{0.5}
Building material class	A1, not flammable
Gross density	85 kg/m ³ < p < 110 kg/m ³
Compressive strength	min. 0.150 N/mm ² (150 KN/m ²)
Tear strength	0.07 N/mm ² (70 KN/m ²)
Thermal conductivity	0.040 W/mK according to DIN EN 12667)
Diffusion resistance	3/7

Installation instructions:

It is recommended to perform an exact damage analysis assessment before work commences. If issues, such as excess water ingress, are evident on the structure, these should be addressed in tandem with the installation of the Redstone Pura board system. The technical data sheets of the individual system components must be observed.

Substrate preparation:

The mineral substrate for the application of Redstone Pura must be clean, solid, dust-free, strain-free (eg. structure-damaging salts stains, bitumen, oil) and free from mould. Contaminated materials such as gypsum-based materials or wallpapers must be properly repaired or removed. Lime or lime/cement based substrates should be free of mould. Any mould present can be sterilised by an application of Redstone SuS Mould disinfectant spray.

As these are flat boards, they must be applied onto a flat background. Stone or Brick substrates should be plastered with Naturally Hydraulic lime (contact Stoneware Studios for advice) to provide a flat surface onto which to attach the boards.

Installation:

Redstone PURA should be cut to size. Redstone MCS Adhesive should be mixed according to the manufacturer's specification and applied to the complete surface of the back of the board using the notched trowel method. Choose the height of the notched trowel in a way that guarantees a complete bond between the board and substrate (perform adhesion test if necessary). The trowel should be notched 10mm or greater. No adhesive is necessary on the board edges as they should be rubbed into place creating a tight fit between boards with no gaps.

The application and adjustment of the Redstone PURA board should be carried out quickly (before the adhesive stiffens or forms a skin) by consistent pressing to form a complete substrate-to-board adhesion. Handle the boards with care; apply only moderate force when pressing the board to the wall.

Mount each board in a staggered fashion to avoid long joints.

Ceilings and roof pitches require an additional anchoring with conventional stainless steel WDVS board anchors (3-5 per board). No anchoring is necessary when applying the boards where there is no mechanical load.

The board edges should be protected against mechanical damage with corrosion-free corner beads (e.g. made of plastic, stainless steel or aluminium). These are fixed with Redstone OC Plaster.

After the adhesive hardens and the Pura board is secure, apply one coat of Redstone Silicate Primer to all areas. This can be applied with a brush or in most instances a roller will be more effective. Mix

The technical specifications and instructions included in this document are all correct to the best of our knowledge and are provided in good faith. The content of this document presents neither an express nor an implicit guarantee regarding the performance of these products. Since the operating conditions and the method of use of our materials are not subject to our control, we can only guarantee that these products conform to our quality standards. This is why the warranty can only cover the quality of our products in terms of our general terms and conditions, and cannot cover successful processing. The right to change all technical information without prior notice is reserved. This technical data sheet shall replace all previous ones.



STONEWARE STUDIOS

Pillmore ♦ Youghal ♦ Co. Cork
Tel 024 90117 Fax 024 90114
mail@stonewarestudios.com
www.stonewarestudios.com

and apply one thin (2mm) coat of Redstone OC plaster. Bed in Redstone mesh while the plaster is still green and apply a further 2mm coat of the OC plaster. Allow the plaster to firm up before finishing with a steel trowel to a smooth finish. Redstone OC plaster can be sanded after fully hardening, if desired.

Decorate with a fully breathable and diffusion-open paint such as Earthborn Claypaint.

When fixing mechanical loads (example: sanitary facilities, radiators etc.), the weight should be transferred to the substrate by way of appropriate fixings.

Occupational safety

Special care when handling alkaline powdered materials, liquid materials and boards should be observed. Skin contact or inhalation of the materials can be dangerous. Safety glasses should be always worn and protective gloves and a dust mask should be used.

EC Safety Data Sheet:

We are happy to provide you with the EC Safety Data Sheet upon request.