

Technical Data Sheet redstone PURA™

Mineral wall board for interior thermal insulation

Area of application:

redstone PURA™ is:

- adhered directly to CMU block or brick walls
- suitable for walls, ceilings and basements

System components:

- redstone™ Special Adhesive S
- redstone™ Filler
- redstone™ Primer (for priming interior surfaces before final finish)

Properties:

redstone PURA™:

- non-combustible (A1)
- thermal resistance as per ASTM C-518, DIN EN ISO 6946: R 6.11
- mold resistance as per ASTM 3273, ASTM G-21: highest possible score
- effortless to handle, easily applied
- highly effective – eliminates up to 85% of heat loss

Technical data:

| | |
|-----------------------------|---|
| Material | Cement, calcium hydroxide, silicon dioxide, natural protein as pore builder |
| Dimensions (length x width) | 1'-10 ⁷ / ₈ " x 1'-3" (580mm x 380mm) |
| Thicknesses | 2", 3 ¹ / ₈ " (50 mm, 80 mm) |
| Consumption | approx. 4.5 boards per yd ² |
| Thermal resistance | R 6.11 (2 inches) as per ASTM C-518 |
| Mold resistance | Highest possible score as per ASTM 3273 and ASTM G-21 |
| Combustibility | non-combustible, A1 |

The data contained in this document are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions or technical data etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. All former technical leaflets are replaced by this one.

| | |
|------------------------|--|
| Bulk density | 219 lb/yd ³ (130 kg/m ³) ± 10 % |
| Compression strength | 0.360 N/mm ² (360 KN/m ²) |
| Tear-off strength | 0.085 N/mm ² (85 KN/m ²) |
| Thermal conductivity λ | 0.045 W/mK |
| Water vapor resistance | 5 μ |

The specified values are average values. Made of natural raw materials the values may vary marginally without affecting the quality of the product.

Directions for use:

Pre-treatment of the surface:

The mineral surface must be clean, adherent and sustainable, free of residuals (acid salts, bitumen, coatings, oil and the like) as well as mold. Contaminated materials (e. g. gypsum containing materials or wallpapers) must be removed to rule. High absorbing surfaces should be moistened.

Processing:

redstone PURA™ board is easily cut with a jigsaw to the desired dimensions. Pipe penetrations and outlets can easily be created. Mix the redstone™ Special Adhesive S according to its technical data sheet and apply the adhesive either to the board or to the surface with a notched trowel. Extremely uneven surfaces should be levelled before application. The boards should be applied in a running bond. Avoid open joints between boards.

Edges should be protected with a non-corrosive edge protection (e. g. made of plastic, stainless steel or aluminium). The edge protection should be mounted with redstone™ Special Adhesive.

After the adhesive is set, smoothen uneven parts with sanding paper (-board). Use a vacuum cleaner to remove excessive dust on the surface and apply redstone™ Primer with a paint roller or spray bottle. Let primer completely dry before continuing to the finish coat.

A smooth finish of the PURA board can be achieved by applying redstone™ Filler (two layers), together with redstone™ MESH 165, embedded in the first layer. Depending on humidity, it might be necessary to moisten the surface before the application of the finish coat. Follow the technical data sheets of the system components and products in question.

The redstone PURA™ board can also be applied without a finish coat (e. g. as a ceiling cover in cellars). Bevel the edges before application approx. 5-25 mm and butt joint the boards with redstone™ Special Adhesive S.

Ceiling Insulation:

For mounting redstone PURA™ boards on ceilings, use additional anchor material. The minimum anchoring length should be the thickness of PURA™ board.

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Table 1: Finishing Options:

| Application | Steps | | | | |
|--------------------------|--|---|---|---|---|
| | Step 1 | Step 2 | Step 3 | Step 4 | Finishing |
| Plasters | | | | | |
| Silicate Plaster | redstone™ Primer | plaster mesh with filler | Silicate Plaster | | Silicate paint or equal |
| Limestone Plaster | redstone™ Primer | Limestone Plaster (1st layer) | plaster mesh (wet in wet) | Limestone Plaster (2nd layer) | redstone™ WOS Coating Wallpaper latex paint |
| Limestone Cement Plaster | redstone Primer | Limestone Cement Plaster (1st layer) | plaster mesh (wet in wet) | Limestone Cement Plaster (2nd layer) | redstone™ WOS Coating Wallpaper latex paint |
| Alternatives | | | | | |
| Pura™ | apply the 1st layer Pura™ boards | redstone™ Primer | apply 2nd layer with Special Adhesive | | see above |
| Tiles | apply the 1st layer Pura™ boards | redstone™ Primer | plaster mesh with filler | tile adhesive | tiles |
| Wallpapers | redstone™ Primer | 1st layer redstone™ Filler | plaster mesh (wet in wet) | 2nd layer redstone™ Filler | wallpapers |
| Paint | redstone™ Primer | 1st layer redstone™ Filler | plaster mesh (wet in wet) | 2nd layer redstone™ Filler | paint |

Note: The above mentioned finishes are only recommendations and do not pretend to be complete.

Cleaning:

Clean tools with water immediately after use.

Content:

144 boards per pallet; board thickness = 2” (50 mm)

84 boards per pallet; board thickness = 3½” (80 mm)

Safety Advices:

Caution:

- May cause irritation to eyes and skin
- Dust may irritate the respiratory system
- Keep out of reach of children
- Avoid skin contact
- Avoid contact with eyes
- Avoid prolonged inhalation of fumes
- Do not ingest

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First Aid:

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms occur
- In case of contact with skin, wash immediately with soap and water and seek medical advice if irritation develops
- If swallowed, contact physician immediately for assistance

Storage:

Store in a cool (frost-free), dry and well ventilated location.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Material Safety Data Sheet:

MSDS provided upon request.

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