



# *Sempatap*®



## **MOULD GROWTH CONSULTANTS LTD**

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# Sempatap®

## Thermal/Sound Insulation for Walls and Ceilings



### **General:**

SEMPATAP is thermal insulation on a roll as simple and easy as wallpaper to apply and is the economical solution for resolving condensation problems. It has been specified and successfully used by Local Authorities and Housing Associations throughout the UK and Europe for over 20 years.

### **Condensation and mould:**

Condensation and black mould complaints are problems faced by maintenance and housing managers throughout the UK. SEMPATAP is a quick and easy to apply remedy which alleviates condensation problems and makes cold, damp rooms immediately warmer. When applied to wall or ceiling surfaces SEMPATAP dramatically reduces the 'u' value – which, in turn, reciprocally raises the room temperature. It provides a surface on which condensation will not form and is excellent for use on cold solid walls, concrete ceilings, cantilever beams, cold bridges, ring beams, etc. Mould in houses, even in a small contamination, is a serious health risk which can result in asthma, upper respiratory diseases and food poisoning. Furthermore, several independent reports confirm that mould spores are detrimental to the well being of adults and children and, as such, are classified as a statutory nuisance.

### **Sound properties:**

SEMPATAP has very good sound absorption properties and is particularly effective in the range of unpleasant high frequencies. SEMPATAP is particularly useful in helping to overcome problems of reverberation and sound transmittance between neighbouring flats or in high and low rise blocks of flats.

### **Sempatap insulation:**

SEMPATAP is made from a natural material – latex – with a durable woven fibre-glass face. It is in an open and closed cellular construction, which allows the substrate to breathe. It is very easy to apply and operatives do not need any special skills or tools – SEMPATAP rolls are 1 metre wide and 12.5 metres long, therefore it is just like wallpaper – you can get 5 drops out of a roll. The adhesive is water-based, therefore there are no nasty smells and work can be undertaken with tenants in situ – it is not necessary to vacate the property. It can be decorated with virtually anything – emulsion, wallpaper, even tiled and redecoration presents no problems – the fibre-glass finish allows the removal of old wallpaper via any method without damage to the SEMPATAP. Using SEMPATAP in conjunction with MGC's proven mould eradication treatments eliminates black mould problems, dramatically reduces condensation and provides warmer healthier living conditions.

## Technical Information:

### Specification:

Roll Size: 1m wide x 12.5m long  
Thickness: 5mm  
Roll weight: 18.75 kg  
Weight m<sup>2</sup>: 1.5 kg

Thermal Resistance 0.074m<sup>2</sup> k/w

Addition of SEMPATAP to the wall modifies its U-value as follows:

Resistance of untreated wall =  $1/2.1 = 0.476$

Resistance with SEMPATAP =  $0.476 + 0.074 = 0.550$

U-value with SEMPATAP =  $1/0.55 = 1.82 \text{ W/m}^2\text{K}$

### Test Reports:

Thermal Performance

- BRE July 2001

Thermal Resistance

- National Physical Laboratory Jan 2001

Fire Propagation

To BS 476 Part 6

- Building Research Establishment

Surface Spread of Flame

To BS 476 Part 7

- Building Research Establishment

Fire Propagation to M1, M2

- SME Feb 2005

### Application:



Remove any wallpaper and prepare the walls as though you were going to decorate. Apply a liberal coat of SEMPATAP ADHESIVE to the wall using the notched SEMPATAP ADHESIVE SPREADER, brush or roller.



Using SEMPATAP EDGING TAPE to achieve a neat finish on all outward facing corners, window reveals, window heads, etc. locate over the corner of the SEMPATAP and smooth out.



SEMPATAP is applied foam side to the wall. Cut SEMPATAP to required length then roll up with foam side facing out. Apply SEMPATAP to wet adhesive, roll out and smooth with light level hand pressure. Firm up using SEMPATAP SPATULA.



SEMPATAP can be decorated with virtually any finish – wallpaper, emulsion, even tiles

## Benefits of SEMPATAP

- Easy and quick to install
- Makes rooms warmer immediately
- Reduces heat loss – saves money
- Reduces condensation
- Eliminates mould problems
- Stops health risk
- Excellent sound absorption
- EST approved energy saving product

### The SEMPATAP Range:

SEMPATAP 5mm, SEMPATAP THERMAL, SEMPAFLOOR,  
SEMPATHERM RADIATOR INSULATION PANELS, SEMPAFLUE CHIMNEY BALLOONS



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## THERMAL INSULATION FOR WALLS AND CEILINGS

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### APPLICATION INSTRUCTIONS

1. Mould growth on walls and ceilings to be treated in accordance with MGC specification for the eradication of mould. Mould infected surfaces must be sterilised with RLT BACTDET 05. Dilute at 1:4 with warm water and apply by brush, cloth or sponge, extending treatment one metre beyond visible signs of infection. Wallpapered surfaces must be washed down with RLT BACTDET 05 solution prior to stripping. Bag up wallpaper, seal and remove from the premises immediately. Wash infected area again with RLT BACTDET 05 solution and allow to dry before proceeding. Apply by brush one coat of RLT HALOPHEN diluted at 1:4 with water to previously mould infected areas, extending treatment one metre beyond visible signs of contamination.

### SURFACE PREPARATION

2. Existing wallpaper should be removed, artex ceilings should be de-nibed to remove all high peaks. Fill all large cracks, holes etc using SEMPATAP fine grade filler. Remove all flaking paint, gloss painted walls to be lightly abraded wet to key the surface and washed with sugar soap then rinsed clear. All highly porous surfaces, chalking substrates and artex ceilings to be primed with one coat of SEMPATAP 'A' PRIMER and allowed to dry. Prior to application of SEMPATAP ensure that all surfaces are firm, dry and free from mould.
3. Cut SEMPATAP to length, allowing 25mm overlap at each end.
4. Roll-up cut length of SEMPATAP with **foam** facing out.
5. Apply SEMPATAP ADHESIVE with serrated MGC ADHESIVE SPREADER, suitable notched trowel or medium pile roller. Only apply adhesive to one drop length area at a time.
6. Hold the rolled-up piece of SEMPATAP in one hand and unroll the first half metre, (keep remainder rolled-up), and apply **foam** side to the wet adhesive. **Keep the roll on the wet adhesive.** Unroll another half metre. Using light hand pressure, smooth out the unrolled piece that is in contact with the adhesive. If light pressure is used, SEMPATAP can at this point be repositioned by sliding into place.
7. When SEMPATAP is in the required position, use the SEMPATAP SPATULA to firm up. The remainder can then be unrolled down the wet adhesive and smoothed out with the same tool removing any entrapped air bubbles.
8. Firmly push SEMPATAP into sharp internal angles - ceiling line, skirtings etc. with SEMPATAP SPATULA. Trim the top and bottom edges using a sharp bladed knife. (The type of knife with a snap-off blade is ideal).
9. Apply subsequent pieces as above, **but** leave a narrow gap between each piece. The gap should be approximately 1-2mm.
10. Complete the application of SEMPATAP to the area being treated.

11. All open joints and seams are to be filled with SEMPATAP SEALANT. This product is supplied in a standard size mastic cartridge and the nozzle is pre-cut. Place the pre-cut SEALANT nozzle into the seam/joint. A few squeezes of the cartridge gun is all that is required to ensure the sealant flows from the cartridge into the seam. When the seam has been filled, 'knife-off' using a broad blade stripping knife held at right angles to the SEMPATAP face. Leave to dry, (ideally overnight), before proceeding with the decorative finishes.

12. **EXTERNAL ANGLES, WINDOW REVEALS, SOFFITS ETC:**

Cut SEMPATAP EDGING TAPE to required length, fold along the plastic crease line to form a right angle. The plastic should be facing inside. When applied, only the paper side is seen.

Brush SEMPATAP ADHESIVE along the plastic and the paper, set to one side and leave to soak for a couple of minutes. Locate over the corner of the SEMPATAP and smooth out. Remove excess adhesive and leave to dry. SEMPATAP EDGING TAPE can be 'feathered out' using SEMPATAP SURFACE FILLER.

13. **DECORATIVE FINISH**

**SEMPATAP** can be decorated with virtually any finish – wallpaper, emulsion, even tiles. For a perfect finish when using emulsion, cross line with lining paper to totally hide the joints.

**EMULSION** - Apply 2 coats of BIOCHECK Matt or Silk Emulsion by brush or roller at a coverage of approximately 12 square metres per litre per coat. The first coat may be diluted with 10% clean water. It is recommended that Silk is used in kitchens and bathrooms.

**WALLPAPER FINISH** - To hang wallcoverings (including lining papers and woodchip), seal the surface of the SEMPATAP by applying a coat of PVA primer or SEMPATAP 'A' Primer and allow to dry thoroughly. Read fully and carefully follow the wallcovering manufacturers instructions. Use the recommended wallpaper paste/adhesive made up in accordance with the manufacturers instructions.

Add 2 MGC FUNGICIDAL ADDITIVES per 5 litres of paste or size and mix well in for all wall papering. For embossed and woodchip papers apply 2 coats of BIOCHECK Matt or Silk Emulsion.

**GLOSS FINISH** - for woodwork, metal windows, etc.

Clean down, as described in Stage (1), to remove any mould contamination. Rub down previously painted surfaces with wet and dry abrasive paper used wet to form a good key. Apply 2 finishing coats of BIOCHECK WATER BASED GLOSS to all general surfaces. Bare surfaces should be primed with one coat of BIOCHECK WATER BASED GLOSS.

For remedial treatment to floors, especially those with 'cold bridging' or impact noise problems, use **SEMPAFLOOR THERMAL & SOUND INSULATION FLOOR LINING**.

Site and application conditions vary widely and, therefore, all application instructions are given in good faith and are based on our experience and knowledge but without liability.



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*Sempatap® is a Registered Trade Mark*

15 June 2001

To whom it may concern

### Approval of SEMPATAP as an Energy Saving Product

This letter provides verification that the Energy Saving Trust recognises that SEMPATAP & SEMPATAP Thermal can be used as energy saving products and that they are acceptable to the EST in terms of the Energy Efficiency Commitment (SoP) or the Trust's Government-funded programme activity.

These savings are recognised only when SEMPATAP or SEMPATAP Thermal is fitted according to the manufacturers instructions and are currently valid for gas-heated properties with solid walls. The lifetime of the energy savings has been set at 30 years in accordance with existing advice.

For further details regarding the energy savings please contact the Energy Saving Trust at the above address.

Yours faithfully



Andrew Amato  
Data Services Manager

