



By Appointment to H.M. The Queen, Building Material Manufacturers
Sovereign Chemicals Limited, Barrow in Furness

warmtouch

the solution to condensation and black mould



SOVEREIGN
The Gold Standard in Building Products

warm touch

Sovereign Warm Touch is a simple solution to problems caused by cold, solid walls, such as condensation and black mould. Solid walls or those with hard to treat cavities are prone to damp caused by condensation. Traditional internal insulation is costly and intrusive to fit, requiring the removal of skirting boards, doors, kitchen and bathroom furniture. This is particularly problematical for social housing occupants who may require alternative accommodation with the associated costs and disruption to family life.

neat and simple

Sovereign Warm Touch can be applied without mess, fuss, disruption to occupants and can be carried out by decorators, builders and even competent DIY'ers.

Warm Touch is classified as M1 – Permanently Non-Flammable according to NFP 92. Warm Touch is supplied in flexible rolls of either 5 or 10mm thickness, applied like wallpaper, giving instant insulation and sound proofing. Once fitted Warm Touch can be painted, wallpapered or even tiled. Warm Touch 10mm is the recommended thickness, 5mm should only be used where very narrow skirting boards, that cannot be replaced, are fitted.

As well as providing a warmer surface Warm Touch can also be used to renovate cracked and damaged walls (as long as existing plaster/render is still firmly bonded to the background). As Warm Touch is so simple and quick to apply, it is an inexpensive way to rectify multiple problems.

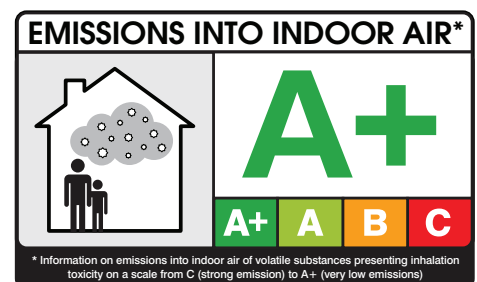
Generally only external walls require treatment for condensation, but internal walls can also be covered with Warm Touch and is particularly useful on party walls where it will reduce noise transmittance. Warm Touch is also ideal for chimney breasts and ceilings, particularly dormers and loft conversions.

limitations

Not suitable for external use or in areas subject to prolonged wetting e.g. shower enclosures. The use of sealants other than Sovereign Warm Touch Sealant may adversely affect the system's fire performance. Tiles fixed to Warm Touch must be ceramic (i.e. not porcelain or natural stone) and no more than 8mm thick and 150mm high and wide.

technical specifications

Thickness	10.0 ± 0.2 mm
Weight	1.55 kg/m ²
Fire Resistance	Class M1, NFP 92
Thermal Conductivity	0.047 W/m.K
Thermal Resistance	0.212 m ² K/W
Sound Absorption	55% @ 1000Hz

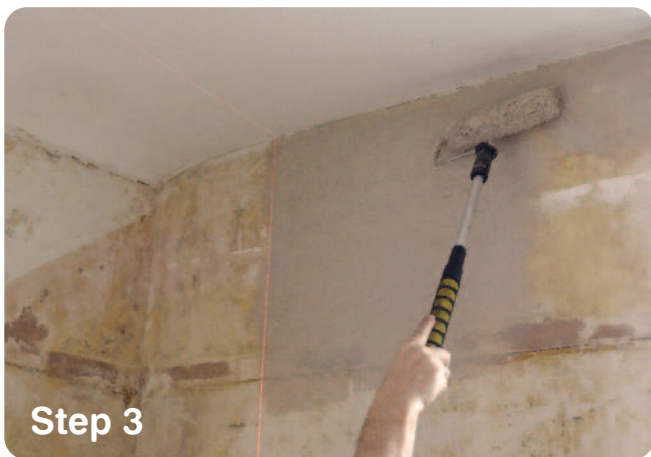


reduces condensation:

Overcomes 'thermal bridge' issues, but is permeable allowing the wall to 'breathe' - making it an effective barrier against condensation and the damage to wall coverings caused by ugly black mould.

Thanks to the excellent breathability of Warm Touch the dissemination of water vapour from insulated outer walls is not disrupted, ensuring good 'building health' is maintained. This permeability, along with the impressive insulation qualities of Sovereign Warm Touch creates the ideal living climate in the home.

To ensure internal water vapour build up is properly eliminated it may also be advisable to ensure adequate ventilation.



fitting is easy

Warm Touch can be applied directly to masonry, painted walls, plaster and plasterboard. Wallpaper must be removed and walls washed clean, sound painted walls are also best cleaned to ensure proper adhesion.

Where black mould is present the surface must be cleaned and sterilised with Sovereign Dentolite Sterilising Solution prior to application. Any major defects such as loose plaster must be repaired prior to installation. Surface and even deep cracks require no special attention as long as there is no underlying structural defect and plaster etc is well adhered to the background.

- 1 Remove radiators from walls, but leave their fixing brackets in place – the insulation can be cut around these. Light and plug sockets should have their fascias unscrewed once the power has been switched off at the consumer unit.
- 2 If Warm Touch Base Rail is required for a neat finish at skirting board level then this needs to be installed prior to the insulation (as illustrated, left). Brush the rear of the plastic channel (the high side) and press firmly onto the wall above the skirting board. This can be done the day before, which allows the adhesive to dry, or immediately before installation of the insulation.
- 3 The best place to start is at windows if present. Using a plumb line or laser level, mark out the vertical starting point so that one edge of the Warm Touch will overlap the sill by a few centimetres. Apply Warm Touch Adhesive generously to the wall, just covering sufficient width for the insulation.

Use a brush to cut in at ceiling height and a medium pile roller for the rest (a 1.5mm V notched trowel can also be used to apply the adhesive where walls are sufficiently flat and true). Leave approx 600mm at the base of the wall free of adhesive to begin with.



cuts down noise:

Warm Touch has excellent sound absorption capacity; reducing echo, providing a cushion effect and absorbing sound - improving acoustics and cutting noise from both inside and outside the home.

Sovereign Warm Touch's ability to absorb noises removes problem echoes and high pitched sounds, creating a pleasant acoustic environment. Noise absorption is normally measured using the alpha sabine coefficient (α_s = weighted average absorption across a range of frequencies). 5mm Warm Touch has an α_s value of 0.32, representing sound absorption of around 32%, this absorption rises to about 75% in the high frequency range. Using the thicker 10mm Warm Touch increases absorption by up to 55% of the typical 1000Hz frequency range of normal speech.

- 4 Cut the Warm Touch into lengths around 4-5cm longer than the height of the wall. Offer up the Warm Touch to the wall so that an overlap of around 2cm is formed at the ceiling. Press the insulation (foam side to the wall) into the adhesive with gentle hand pressure, smoothing out any air pockets. Work downwards until the area at the base of the wall without adhesive is reached. Overlap window reveals, cutting space around ledges as illustrated.
- 5 Check the straightness of the drop before proceeding as any misalignment now will be carried through the rest of the wall. Now lift the unstuck flap of insulation at the base of the wall and apply adhesive to the bare area and into the Warm Touch Base Rail (where used). Press home the insulation onto the wall and where it overlaps the skirting board trim the level carefully with a very sharp knife. Tuck the bottom section into the Base Rail and smooth flat over the entire piece ensuring full contact between the adhesive and insulation is achieved.
- 6 Apply successive drops of insulation in the same manner allowing a gap of around 1-2mm between each. Trim off excess neatly at the ceiling and where the insulation meets the corners.
- 7 Cut small sections of the Warm Touch Insulation to fit into the window rebates. Apply the adhesive into the rebates with a brush and press the insulation home firmly. Trim off the overlaps around the window to produce as neat an edge as possible.



combats cracking:

Effectively covers cracks and other wall and ceiling blemishes with a smooth, elastic surface that can stretch, bend and relax.

Because it's made from latex, Sovereign Warm Touch Foam is highly elastic, whilst its excellent shape 'memory' enables it to return to its original position after stress. Warm Touch is also easy to apply, decorate and maintain, providing excellent coverage of the unevenness and cracks typically found in the ceilings and walls of older homes.

- 8** For all external corners install Sovereign Warm Touch Corner Tape to reinforce the edge and to provide a neat, square finish.

Cut a piece of Corner Tape to the appropriate length and fold it in half lengthways with the metal strips inside to provide a crease. Apply Warm Touch Adhesive to the inside of the tape. Offer it up to the corner and press on firmly overlapping both sides of the corner. Use a lightly dampened sponge to flatten the Corner Tape and squeeze out and remove excess adhesive.

- 9** Where there are light switches and plug sockets cut the adhesive around these with a brush and cross cut the insulation over the protrusion. Trim the Warm Touch around the socket and use Warm Touch Sealant around the perimeter to give a neat, fire resistant finish. Use longer screws when necessary to re-fix the socket fascias.

- 10** Once all the entire wall has been covered use Sovereign Warm Touch Sealant to fill the gaps between each section to provide a neat finish at the corners and ceiling. After 24 hours check the sealant for slight shrinkage in the gaps between lengths of Warm Touch and top up where required.

Allow the adhesive to dry for at least 24 hours before decorating, and 4 days before tiling. Damp, cold conditions (e.g. unheated properties) will extend the drying time. Any minor defects such as creases in the surface of Warm Touch should be smoothed out using light weight filler.

- 11** Before applying paint or wallpaper seal the surface with Sovereign PVA diluted with water – five parts water to one part PVA. Allow the PVA to dry before continuing. For best results cross-line the Warm Touch with lining paper before painting or wallpapering.

When painting we recommend the use of Sovereign Fungi-Chek Emulsion where a silk finish is required or Sovereign Fungi-Chek Anti-Con for a matt finish. The use of these paints gives added long term protection against mould growth. IF Sovereign Fungi-Chek is not to be used then it is highly recommended that Sovereign Mould Control Additive is stirred into normal paint. Sovereign Mould Control Additive is also recommended for use in wallpaper paste when applying the lining and/or wallpaper.

- 12** If tiling is to be fixed to the Warm Touch, then Sovereign Goldstar must be used. Once tiling is in place, allow 3-7 days for the tile adhesive to dry before grouting with Sovereign Flexible Anti-Mould Grout.



Step 8



Step 8



Step 10



beats the cold: Reduces Energy Consumption, giving a gain of between 2 and 6°C, eliminating the cold walls that cause condensation. Officially labelled as 'Energy Saving' in the UK.

Warm Touch thermal conductivity: $\lambda = 0.047 \text{ W/mK}$ (UK test 0.051 W/mK):

The impressive insulating power of Sovereign Warm Touch reflects its special cellular composition which has a very low thermal conductivity, resulting in impressively low λ value.

Warm Touch thermal transmission coefficient (the 'U' value):

A typical 24cm (10 inch) thick bare brick wall has a U value of 2.1 W/m²K.

If the same brick wall is then covered with 10mm Sovereign Warm Touch the U value is reduced to 1.58 W/m²K (UK test 1.49 W/m²K). In other words the result is an energy saving of 25% (UK test 29%).

about sovereign

Sovereign develops and manufactures a range of over 800 remedial treatments and general building products. Each one combines exacting formulation and premium level specifications with an unrivalled technical support service. In addition to being in receipt of The Royal Warrant, **Sovereign** has also been accredited to BS EN ISO 9001/9002 for its manufacturing systems and product quality, and was the first company in the damp proofing sector to achieve BSI approval for its entire range.

Sovereign is committed to continual improvement of its products and service levels and works in close partnership with customers to constantly develop innovative new solutions and technologies. As part of this process, the Company has become a leader in the promotion of environmentally responsible technologies; where possible using recycled raw materials to cut waste and water-dilutable concentrates to reduce transport volumes and the carbon footprint.

Further information on **Sovereign Chemical's** comprehensive range of innovative building and construction products may be found by visiting www.sovchem.co.uk



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