

# Humidity<sup>™</sup> Care and Maintenance

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While the absorb range of Decosorb<sup>™</sup> solutions demonstrate strong resilience in humid conditions, it is important to note that while the products themselves don't encourage mould or mildew formation, these can still develop on the surface if specific conditions are met, such as the presence of organic matter or water condensation.

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## High Humidity

To minimize the risk of mould growth, it is essential to prevent condensation through effective ventilation and well-designed walls and ceilings. Guidelines from ASHRAE suggest maintaining indoor temperatures between 19-28°C and keeping relative humidity under 65%. The CIBSE offers similar advice, recommending a relative humidity range of 40-70%.

In settings like indoor swimming pools, where the risk of condensation is higher, ASHRAE advises keeping the air temperature 1-2°C above the pool temperature but not exceeding 30°C and maintaining a relative humidity between 50-60%. To meet these standards, a well-designed HVAC system should be in place, along with proper operational management, especially before installing interior acoustics products.

Adequate air distribution is also crucial for steering humid air away from walls and ceilings to prevent condensation.

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## Install

While our products excel in humid conditions, it's crucial that their design and installation do not contribute to surface condensation. This principle is applicable to other materials used in similar environments. For ceiling installations, it's important to avoid creating an airtight cavity in the roof, as this can lead to temperature differences that might cause condensation. Proper air circulation in the roof area is also needed to direct humid air away and minimize condensation risks. Any cavity between the roof and acoustic panels should be well-ventilated to prevent moisture buildup.

Fixings used in acoustic systems in high-humidity environments must be carefully selected so that the risk of corrosion is minimised.

We encourage you to consult with us during the design phase to provide tailored solutions to address condensation and mould issues specific to each project.