

## CASE STUDY SAALHOF CASTLE MAISHOFEN

USERS REPORT ON THEIR EXPERIENCES WITH AQUAPOL®  
TECHNOLOGY FOR WALL DEHUMIDIFICATION



## WALL DEHUMIDIFICATION in Maishofen | Salzburg with the Rieder family

Saalhof Castle (Schloss Saalhof) is one of the oldest small residences in Pinzgau. Near Lake Zell and surrounded by mountains, the historic castle looks particularly picturesque. The building, which is now under a federal preservation order, was built in the 16th century and has been owned by the Rieder family since 1840. Today, the castle serves primarily as an activity and recreation centre for all ages. Some of the available apartments and holiday homes are located directly in the castle, which guarantees a unique atmosphere.

However, today's feel-good factor has not always been the case. From 2000 onwards, the castle was regularly altered and renovated to actually make it habitable. Rising damp from the ground was one of the main problems, which is why Mr Rieder turned to AQUAPOL® in 2003.

**Installation** 17/02/2003  
**Final measurements** 14/09/2005 & 12/04/2010



“ WE'RE STILL DELIGHTED  
AND HIGHLY RECOMMEND  
AQUAPOL® ”

# SUSTAINABLE WALL DEHUMIDIFICATION

SIMPLE. NATURAL. MEASURABLE.

## Before and after



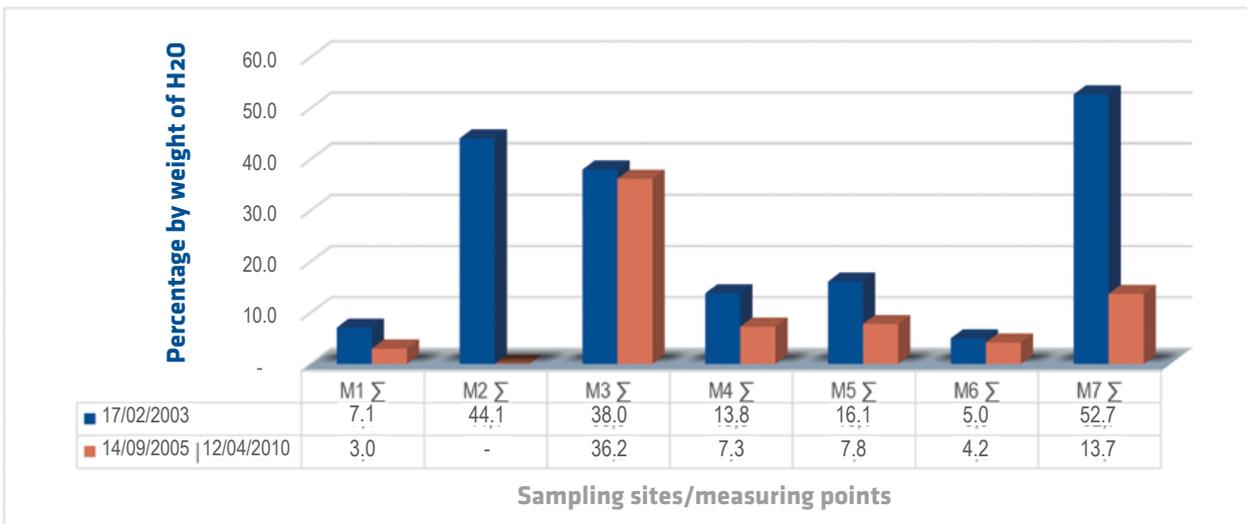
## EXSICCATION CHART



THE AVERAGE REDUCTION OF MOISTURE IN THE MASONRY IS APPROXIMATELY **46 % \*)**

Predominantly, capillary moisture was thereby eliminated. That which remains is 'residual moisture'.

Measurements were carried out as per the DARR test method (as the only valid method) in accordance with the Austrian Standard (ÖNORM) B3355.



\*) Basis of calculation: Initial values at the time of the first measurement in relation to measured values at the time of the final measurement.

Measuring point M2 had already been remediated at the time of the final measurement.

“ THE HOLISTIC AND NATURAL AQUAPOL® CONCEPT WAS DECISIVE FOR ME. THAT'S WHY I CHOSE THIS METHOD - AND IT HAS ALSO WORKED VERY WELL FOR US. ”

## INTERVIEW WITH HERMANN RIEDER

**AQUAPOL®:** *Mr Rieder, what particularly bothered you about your castle's damp situation?*

**HERMANN RIEDER:** Our family was living in the castle at that time, but it was anything but homely. The wall dampness looked bad, and it was always cold and uncomfortable.

**AQUAPOL®:** *What was particularly important for you in connection with wall drying?*

**HERMANN RIEDER:** My family and I really wanted measures that would protect the building and its structural fabric. An environmentally-friendly and sustainable approach is a high priority for us, and should also be reflected in our renovation measures.

**AQUAPOL®:** *Can you give us a few impressions of working with AQUAPOL® – what struck you?*

**HERMANN RIEDER:** AQUAPOL® advised us comprehensively and informed about the accompanying measures. It was explained in detail that the unit is responsible for wall dehumidification – but that for holistic exsiccation, restoration measures would also be imperative. We followed the advice given by AQUAPOL®, and implemented one measure after the other, step by step. We had the unit installed, and then started the plaster renovation work. Environmentally-friendly and natural materials were used, much to our satisfaction.



It was particularly important to the Rieder family to only use measures that would protect the building and its fabric.

**AQUAPOL®:** *What advantages do you see with this environmentally-friendly process?*

**HERMANN RIEDER:** We used lime plaster, since we are know it from former times, i.e. lime with river sand and round grain. This had the advantage that we could achieve the same surface as the original. In contrast to standard restoration plasters and other chemical agents, lime plaster is breathable and therefore an essential factor in combating damp.

**AQUAPOL®:** *Why did you choose AQUAPOL®?*

**HERMANN RIEDER:** AQUAPOL®'s holistic and natural concept was decisive. So that's the main reason I chose this method – and it has also worked very well. We're still very satisfied, and can strongly recommend AQUAPOL®.



*“Saalhof Castle is one of the numerous excellent reference projects for the successful application of the innovative AQUAPOL® technology for sustainable wall dehumidification. Especially with walls of this thickness and composition (mixed masonry), rising damp can rarely be eliminated with conventional methods. As a practising building biologist and experienced AQUAPOL® technician, I am particularly pleased that the Rieder family, despite initial misgivings, decided in favour of the AQUAPOL® system, which is gentle on the structural fabric of the building, and also that they were committed to using natural and sustainable renovation materials.”*



After the Rieder family had been won over by the AQUAPOL® system at the castle, another AQUAPOL® unit was installed in the adjacent "Moarhaus" outbuilding in 2010.



The AQUAPOL® unit in the outbuilding was installed on 13/12/2010.

 See a video of this case study at [www.aquapol.tv](http://www.aquapol.tv)

Presented by:



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