



# MAINTENANCE MANUAL WINDOWS & DOORS

protected by

**ADLER**

TIME FLIES,  
BUT NOT FOR YOUR  
WOODEN WINDOWS  
AND DOORS

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Windows and doors made of wood provide a cosy and comfortable indoor climate in all seasons and act as a shield against noise and environmental pollution. They have natural thermal insulation properties and are more sophisticated than other constructions in this respect. From the ecological perspective, wood is still clearly the most eco-friendly material for window frames and doors.

### WOODEN WINDOWS AND DOORS ...

- are more resistant and provide perfect protection.
- offer a diverse range of design options.
- provide a healthy indoor climate.
- save both energy and cost.
- ensure a favourable ecological balance.

The influences of weather such as the sun, wind, humidity and temperature fluctuations as well as any blue stain and fungal attack are constant sources of stress for wood. In order to protect your windows and doors against the impact of these weather-based influences, proper surface treatment is of vital importance for long service life. For this purpose, ADLER has developed the most modern window and door coating systems, as well as products for maintenance and preservation that guarantee long durability and ease of maintenance.

With this manual, we would like to provide all necessary information that you need to maintain and preserve your windows and doors. This ensures that you can enjoy your wooden windows and doors for a long time – according to the ADLER slogan, "Time flies, but not for your wooden windows and doors!"

# GOOD TO KNOW DURING THE INSTALLATION PHASE

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PLEASE NOTE THE FOLLOWING INFORMATION REGARDING THE PROFESSIONAL INSTALLATION OF YOUR WINDOWS AND DOORS:

- Whenever work is carried out around the windows or doors, they must be covered for protection (DIN 18350).
- Protect the surfaces particularly against coming into contact with plaster, mortar and floor screed. We recommend the use of plaster rails as the best technical solution.
- Only use Tesa 4438 Tesa-krepp 12 Wochen UV or Tesa 4440 Präzisionskrepp, 3M Scotch 2090 Professional Masking Tape, KIP 373 Fineline-Tape Washi-Tec extra strong, KIP 307 Lasurband or Gebol 458 Pro-Tape Abdeckband Mask.
- The adhesive tape should be removed carefully within 2 weeks. Do not use any sharp objects for this purpose.
- Building moisture must be ventilated, and it is only in this manner that you effectively avoid damage to the coating and wood. For winter constructions we recommend heating and ventilating simultaneously (shock ventilation). Ventilate several times daily particularly for working with plaster and screed.

# CLEANING AND MAINTENANCE

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Maintenance and preservation of wooden windows and doors is a significant prerequisite for long durability of the surface. In order to minimise the cost and effort for this purpose, ADLER has developed an appropriate preservative system that can be used easily and efficiently:

### ADLER WINDOOR CARE-SET

The ADLER WinDoor Care-Set is a maintenance system for coated doors and windows made of wood, aluminium and PVC as well as garden furniture.

Applied 1 or 2 times a year, the system maintenance (cleaning and care product) offers a sustainable way to extend coating life. Even micro-fine cracks and pores in the paint film are sealed up, thereby improving durability. The system maintenance is water, oil and dirt repellent and maintains the gloss or matt finish of the surface. In addition, the care product can be easily overpainted.

The ADLER WinDoor Care Set is not suitable for repairing existing paint damage, e.g. damage caused by hail, nor for high-gloss surfaces.

## APPLICATION

Shake products before use and screw on the spray head provided.

### STEP 1 – Cleaning with ADLER Top-Cleaner

Apply ADLER Top-Cleaner over the whole surface with the cleaning cloth (yellow) and wash the surface with warm, clean water.





## STEP 2 – Maintenance with ADLER Top-Care

Window: spray ADLER Top-Care directly onto the maintenance cloth (blue), apply and wipe down.

Front doors and garden furniture: apply ADLER Top-Care thinly with the spray bottle and wipe with the maintenance cloth.



### OUR TIP

Wash out the cleaning cloth and maintenance cloth with clean water and soap, then it can be used several times.

Other areas of application





### Drying time

approx. 1 hour (non-sticky)

### Yield

Bottle contents coverage - about 10 m<sup>2</sup>

### Contents of ADLER WinDoor Care-Set

- ADLER Top-Cleaner 250 ml
- ADLER Top-Care 250 ml
- 1 yellow cleaning cloth (ADLER Top-Cleaner)
- 1 blue maintenance cloth (ADLER Top-Care)
- 2 spray heads

**Article number** 722900030017

The contents of the preservative system can also be ordered as separate items, of course.

# CHECKING THE PAINT FILM

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In order to avoid major subsequent damage to your high-quality wooden windows and front doors, we recommend regular visual inspection of the coating.

Check whether the paint film on your wooden windows or front door shows signs of mechanical damage, e.g. damage caused by hail. If there are any signs of flaking or greying of the coating, due to lack of use of the ADLER WinDoor Care-Set, then it is necessary to repair the damaged spots or to apply a refurbishing coat.

Please contact an ADLER sales partner, carpenter or window manufacturer near you for detailed information regarding the refurbishment of front doors and windows. For more information on renovation, please visit our homepage [www.adler-lacke.com](http://www.adler-lacke.com).

# PROPER VENTILATION

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## HEALTHY LIVING CALLS FOR VENTILATION! WITH PROPER VENTILATION ...

- you achieve a healthy and comfortable indoor climate.
- you reduce your heating costs.
- you prevent mould formation in your living space.
- you enhance the service life and durability of your wooden windows and doors.

## WHY PROPER VENTILATION IS IMPORTANT

In the past, continuous ventilation was not needed in living spaces. Ventilation just happened, through windows, joints and cracks that were never made completely airtight. However, these unsealed spots meant a high level of energy and heat losses at the same time, resulting in higher heating costs.

In contrast, modern new buildings and refurbishments are characterised by good thermal insulation, air-tight windows and construction carried out without thermal bridges. Heat thus remains in the room. The insulation effect of modern wooden windows is also far better than it was in the past. Condensation can form on the insulated glass of windows with the best U-values. Drops may run below them and cause mould to form in the living space and bedrooms.

When drying out new buildings and conversions, large quantities of water vapour escape from the plaster and flooring screed inside. Everyday life activities such as showering or cooking can also generate high humidity. Invisibly and continuously, moisture is generated by people too - about one litre of water vapour is released per person per night! If the air indoors is too humid, condensation may form. This increases the risk of mould formation.

Incorrect or non-existent ventilation adversely affects the indoor climate and thus the quality of life in your living space. Humidity, dust or harmful substances may accumulate in your living space and thus affect well-being and health within your own four walls. Insufficient air exchange rates lead to increased levels of CO<sub>2</sub> and thus to signs of fatigue and reduced concentration.

The primary prerequisite for good air quality and thus quality of life is therefore adequate and regular air exchange. Proper ventilation also helps you to save energy and protect the environment. This is because fresh dry air heats up much faster than humid air.

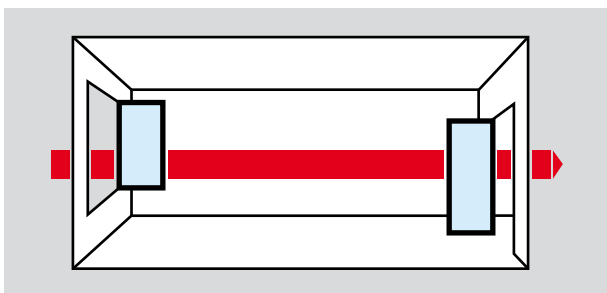


## TYPES OF VENTILATION

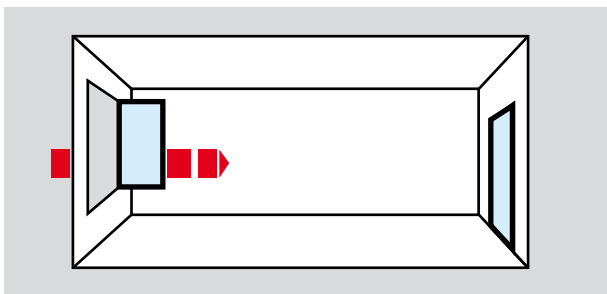
### VENTILATION METHODS IN WINTER

- **Cross ventilation**

Open opposite doors and windows of a room at the same time for 1 to 5 minutes, 3 to 4 times a day.



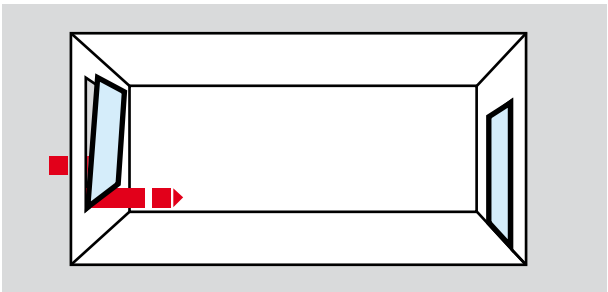
- **Shock ventilation** (when cross ventilation is not possible) open one window or one door of the room completely for 5 to 10 minutes, 3 to 4 times a day.



## VENTILATION METHODS FOR SUMMER

- **Partly opening window**

In winter, this method results in a very low air exchange rate and causes high levels of energy loss with windows permanently partly open. Moreover, the walls in the upper lintel area cool down. Condensation forms, subsequently producing mould.



Automated ventilation systems are suitable for greater operating comfort. Sensors measure atmospheric humidity and CO<sub>2</sub> concentration. Electromechanical ventilation elements open and close the windows as needed. These window ventilators can either be ordered from window manufacturers for new windows or installed subsequently as a retrofit solution. Due to heat recovery, the energy loss is as low as possible. Depending on the financial outlay, these systems can also be linked to the building facility management system or the heating control system so that heating does not take place during the ventilation phase, keeping energy loss as low as possible.

## TIPS FOR PROPER HEATING & VENTILATION

- For hygienic air conditions, ventilation should take place briefly every 2 to 3 hours.
- If the room layout allows, cross ventilation should be implemented via 2 openings.
- The ventilation period depends on the season of the year. Basically, the lower the outside temperature, the shorter the ventilation period can be! Cold outside air contains only low humidity and can absorb large quantities of moisture when heated.
- Depending on the season, the relative humidity inside housing should not exceed 60 % in summer and 40% on cold winter days (please refer to relevant country-specific guidelines).
- The rooms should be heated up adequately (to approx. 20°C). Also, temperatures in rooms that are not used very often should not be allowed to drop below 18°C under any circumstances.
- Keep interior doors closed between rooms heated to different temperatures.
- Ventilate the bathroom immediately after bathing or showering. Keep the door closed while bathing or showering.
- Keep the kitchen door closed while cooking (use an extraction hood).
- Rooms used to dry laundry must be ventilated more often. Do not dry laundry in living spaces.
- If possible, avoid using humidifiers, indoor fountains or aquariums.

# ADLER PRODUCTS

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ADLER offers product systems suitable for renovation of doors and windows. You can use them to bring a new shine to your doors and windows without much effort.

For cleaning and caring for your doors and windows, we recommend the complete ADLER WinDoor Care-Set system consisting of cleaning and maintenance products. For detailed information on the subject of window maintenance and care as well as useful tips and tricks for your wooden doors and windows, please visit our homepage **[www.adler-lacke.com](http://www.adler-lacke.com)**.

Simply ask your nearest ADLER sales partner, carpenter or window manufacturer.

We hope you enjoy your doors and windows provided with ADLER coatings!

ADLER – WOOD  
PAINTS & VARNISHES  
PRODUCED TO THE  
HIGHEST QUALITY

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ADLER-Werk Lackfabrik is Austria's leading manufacturer of paints, varnishes and wood protection. The family business, with its head office at Schwaz in Tyrol, was established in 1934 and employs a workforce of over 600 people.

Two thirds of the products manufactured can be thinned with water. With its high level of commitment and innovative research work, ADLER is the market leader in the field of timber construction coatings. ADLER's high product quality and environmentally responsible processes are continuously monitored and confirmed by numerous European research and testing facilities. ADLER does not just pay lip service to environmental protection, as is proven by numerous awards and certifications, for which the paint factory regularly undergoes strict inspections. We have always prioritised quality and sustainability over quick business and profitability. This has made us an internationally recognised premium brand.



protected by



The seal of quality assures you that your wooden structural elements have been coated with an eco-friendly premium product. The result: a naturally protected and refined surface. With proper care, you will enjoy it for many years!

Nominal charge: € 0.40

01-2021

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