



Manufacturer's recommendations regarding storage and cleaning of powder coated and coil coating surfaces.

1. Storage of coated elements

- 1.1. Building field is the most common place of collecting coated products and that is why recipient should be aware of unintentional damaging of coating layer.
- 1.2. Coated elements must be stored in dry and ventilated places not exposed to external factors. Should be protected against UV radiation, temperature, gases and humidity.
- 1.3. Coated elements should be stored on flat surfaces on wooden pallet in closed rooms protected against weather conditions. Recipient need to be very aware of mechanical damages.
- 1.4. Elements in open boxes need to be secured. Coated layer is no immune against mechanical damages caused by sharp tools or abrasive materials.
- 1.5. Storing materials in incorrect conditions (especially outside) may cause moisture condensation between coating, product and packaging material. This connected with non proper ventilation may cause white stains on coated top layer.
- 1.6. Foils and other protection materials are only to protect product during transport and should be removed immediately after delivery.
- 1.7. If there is no possibility of removing protecting layers it is recommended to open package to secure ventilation of all elements. But please be aware these are not proper conditions and manufacturer doesn't take responsibility for storing material this way and this will not provide that coating will not damage.
- 1.8. Leaving foil or tapes on coated elements take risk of tape vulcanization especially if goods are exposed on sun and high temperature what may cause chemical reactions which entail difficulties with tape removing and in the end damages.
- 1.9. In case goods get wet in transport or during unpacking needs to be dried immediately .

2. Cleaning of coated elements

- 2.1. It is necessary to provide regular cleanings in order to preserve aesthetic properties and durability of coated elements for a long time.
- 2.2. Sporadic or inappropriate cleaning accelerate process of soiling. Depending on environmental conditions may this cause irreversible defects on the surface such as corrosion or chalking etc.
- 2.3. Elements keeps quality, look and functionality only if are cleaned regularly, often and properly to degree of soiling.
- 2.4. Maintenance of painted surfaces must be carried out at least once a year (cleaning is allowed at intervals of no less than 18 months in the case of elements inside the rooms, where the degree of soiling is negligible).
- 2.5. More frequent washing is required in areas with high air and ambient pollution. In this case, washing must take place at least twice a year. In this way, any damage can be detected earlier and make the needed repairs.
- 2.6. Washing must be documented in form of a protocol and photographic documentation, which must show all the cleaning agents, preparations and cleaning process used for this purpose. The logs should also include the safety data sheets of used detergents.
- 2.7. In case of contamination of painted elements during transport or storage the dirt must be removed from painted surface only with water.
- 2.8. In order to improve the washing effect use neutral or mildly alkaline detergent (you can not use detergents directly on the varnish coat, detergents must be added to water for dilution). We recommend to use only cleaning agents with a pH value of 7.
- 2.9. Washing can be more effective if we use delicate, soft cotton clothes which do not leave fibers on material. Temperature of mixture of water and detergents used for washing must not exceed 25 ° C.
- 2.10. Cleaning should only take a place on a surface heated to maximum temperature 25 ° C and should not be carried out during direct exposure to solar radiation (high temperature).
- 2.11. After cleaning, it is necessary to rinse the surface with clean, cold water (preferably demineralized) and wipe dry with a soft cloth.

When providing the cleaning of the coated surface you should follow the appropriate order:

- in the first stage, the painted surface should be pre-rinsed with a large amount of water to soften the dirt and eliminate the lightest dirt,
- the next step is to use a mixture of water and a neutral cleaner using soft fabrics,
- in the last stage, rinse the cleaned surface with clean, cold water and wipe the elements until dry.



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- 2.12. Greasy, oily and tar-like substances and residues of glue, silicone rubber, self-adhesive tapes can be removed from the washed surface with the aid of spirit without the addition of aromatic compounds or isopropanol (IPA). You can also use extractor gasoline. **DO NOT USE NITRO** - it may damage the coating !!!
- 2.13. Do not use strongly acidic, strongly alkaline detergents and surfactants.
- 2.14. It is forbidden to use organic solvents or agents containing esters, ketones, sugar alcohols, aromatic compounds, ethylene glycol or halogenated hydrocarbons, etc.
- 2.15. The use of detergents of unknown origin is prohibited.
- 2.16. The usage of aggressive cleaning agents may lead to discoloration of the coating.
- 2.17. It is forbidden to use abrasive cleaners, cleaning by rubbing and using rough tools. While cleaning, do not press the cloth too much against the surface of the varnish coat.
- 2.18. Dry cleaning may damage the coating.
- 2.19. Do not use steam and high pressure washers.
- 2.20. The detergents used for cleaning can not react with the washed surface for more than one hour.
- 2.21. **REMEMBER!!!** Before cleaning the entire contaminated surface, check the effectiveness of cleaning with the selected small piece in an invisible place. After washing test and assessing the effect of the agent on the surface of the painted element (including the sealing elements), you can proceed maintenance work.
- 2.22. The customer must make every effort to ensure that the washing process and used preparations / detergents do not damage the coating. Maintenance, which purpose is to clean the painted surface should be carried out by a suitable entity that specializes in cleaning metal parts with a varnish coating. Selection of the wrong measure, or cleaning methods can lead to irreversible damage to the paint coating.

The customer is responsible for the correct storage and cleaning of painted parts.

The information contained in the recommendations can be periodically updated, however the latest version is always valid. For this purpose, please visit our website at www.barwasystem.eu, where the download section in the information section contains the latest version of these recommendations.

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