

Ventilated facades & KRION

1. Cleaning products.

Only use the cleaning kit from the company KRION PORCELANOSA Grupo in the cleaning and maintenance of KRION facades.

- White scourer pad
- Green cleaning cloth
- Grey drying cloth
- K-Cleaner 500 ml
- K-Cream 530 ml

Use the cleaning kit for KRION according to the cleaning and maintenance instructions indicated in the document TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319 from the company KRION PORCELANOSA Grupo.

2. Initial cleaning of the facade.

Once all the construction activities and works are finished, that may produce dirt or residue and therefore affect the appearance of the facade:

- Clean with pressurized water and dry with a clean cloth.
- When the stains resist normal washing with water, repeat the cleaning according to the cleaning instructions point 1 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- Never use abrasive elements or detergents that are different from those indicated.
- Use qualified personnel and appropriate tools.
- Before the initial cleaning, check the information contained in the technical documentation and packaging of the used products.

3. Regular cleaning.

Direct contact of the facade with the air and therefore with environmental pollution, as well as with any kind of vapor, gas, liquid, or element coming from the building or the outside, can produce dirt deposits that can affect the appearance of the facade. Since KRION[®] slabs are characterized by their zero water absorption, dirt does not penetrate, it only remains on the slab surface.

- Clean according to the cleaning instructions point 1 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- When the stains resist the first cleaning, repeat the cleaning according to the cleaning instructions point 2 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319
- For difficult stains resistant to point 2 instructions, perform a deep cleaning according to the cleaning instructions point 3 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- Do not use as strong acid-based cleaners like hydrochloric acid, drain cleaners. acetate-based or industrial cleaning products or solvents.
- Do not use detergents containing waxes in their composition.
- Never use abrasive elements that may scratch the KRION slabs.
- In any case, we recommend to always perform a preliminary test.

The cleaning frequency will depend on the degree of soiling, being 5 to 10 years for areas with average pollution, and around two years for areas where pollution is high.

Due to the characteristics of facade-cleaning, with the risks that works at heights pose, we recommend hiring a company specializing in the cleaning of curtain walls.

4. Cleaning of traces of paint or graffiti.

The facades are exposed to acts of vandalism with paint stains or graffiti. Since KRION plates are characterized by zero absorption, dirt does not penetrate, it only remains on the surface of the plate.

- Clean according to the cleaning instructions point 3 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- Once the stain is removed, clean the entire KRION plate in the same way that periodic cleaning would be done.

5. Cleaning rust stains.

Rust stains can accumulate naturally on the facade slabs.

- Clean according to the cleaning instructions point 2 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- For difficult stains resistant to point 2 instructions, perform a deep cleaning according to the cleaning instructions point 3 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.

6. Cleaning of mold spots.

Exceptionally, mold spots may grow on the façade panels. Apply with FILA NOMOLD active mold-remover according to the manufacturer's instructions

7. Removal of dirt from rainwater.

The ventilated facade characteristics limit the dirt deposited from rain water. In the case of rains that drag contaminants present in the air or leachate from the building itself, dirt may accumulate in some specific points of the facade such as window sills, crowning trims, and corners.

- Clean with pressurized water and dry with a clean cloth.

8. Repairing small cuts and scratches.

KRION[®] is a technological material that is uniform throughout its thickness, both physically and chemically, which is characterized by a completely renewable visible surface.

- For surface scratches perform a deep cleaning according to the cleaning instructions point 3 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319
- Once the stain is removed clean the entire KRION[®] slab just as you would do in a regular cleaning.

In the case of deeper cuts or scratches, restore the surface of KRION partially according to the instructions of the RESTORATION TECHNICAL NOTE of the company KRION PORCELANOSA Grupo or contact a K[®] Associate Quality Fabricator or **butech's** Technical Department for a budget for a total restoration of the KRION slab.

9. Cleaning the air chamber.

The air chamber existing between the ventilated facade and the substrate is essential for the improvement of the building's thermal conditioning. In order to make air convection easier inside and avoid the formation of thermal bridges, it shall be checked regularly to make sure there are no elements inside.

- Remove any dirt build-up inside the chamber with pressured air or water.

This process is especially important in areas where there is a risk of insects, such as wasps or bees, birds, and small mammals nesting inside it. In these cases, it is highly recommended to include anti-fauna barriers and meshes at the facade bottom.

10. Replacing slabs.

PORCELANOSA Group's ventilated facade system allows for the replacement of any damaged slab. To do this, we recommend contacting the Technical Department of butech and indicating the KRION[®] model supplied.

Do not manipulate the facade structure or slabs without technical supervision from **butech's** Technical Department.

11. Damage to the facade

butech's ventilated facade system structure is designed to stand the movements and strains expected specifically for each project, and thus it does not require any specific maintenance. However, in the case of

- Cracks, fissures, or breakage of KRION slabs.
- Loss of verticality or displacement of pieces with respect to their position on the facade.
- Damage, loss of verticality, or detachments of structure elements of the facade.
- Damage, loss of verticality, or detachments of dressing elements, crowning pieces, or trims of the ventilated facade.
- Water leaks through joints between the ventilated facade and other elements of the facade.

Contact **butech's** Technical Department and indicate the project name.

Do not manipulate the facade structure or slabs without technical supervision from **butech's** Technical Department.

12. General conservation recommendations.

- Do not support on the facade any element or structure not included in the project.
- Do not perform any manipulation of the structure or plates of the facade without supervision from **butech's** Technical Department.
- Before cutting, drilling or milling, take advice on the characteristics of the KRION slab with the manufacturer.

13. Precautions

- Avoid the presence of heat sources on the ventilated facade slabs, such as air conditioning equipment or high-power light sources. KRION[®] withstands high temperatures, but extreme heat can lead to damage to the facade.
- Do not use harmful chemicals, such as strong acid-based cleaners like hydrochloric acid, drain cleaners, acetate-based or industrial cleaning products or solvents. In case of contact with this type of products, quickly clean all splashes with plenty of water and proceed to clean according to the cleaning instructions point 3 of the TECHNICAL SHEET - FOR THE FINAL USER, USE, CLEANING AND CARE, NT14-E03-0319.
- Avoid additional weight loads on the KRION[®] slabs and the ventilated facade structure.
- Do not drill, cut, or do any type of machining on KRION[®] slabs. Before making any changes, ask a KRION[®] Official Transformer.