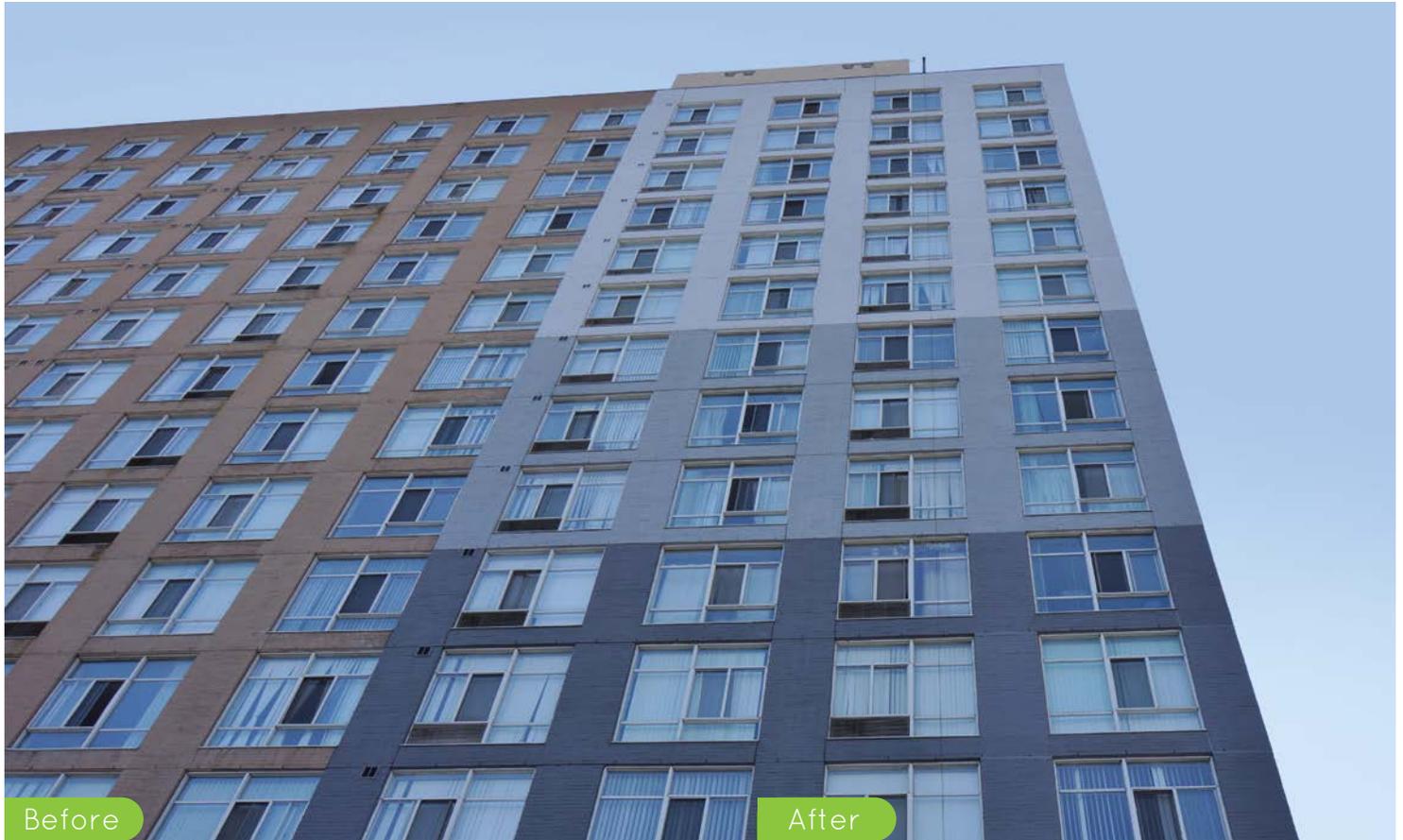


PERMATINT®

Mineral based stains and paints were originally developed in Germany in the late 1800s. Also known as silicate (dispersion) paint or waterglass, these products have been used widely in Europe ever since. The Industry Standard is DIN 18 363 (German Industrial Standard) and PermaTint Limited is the only North American based manufacturer to satisfy it.



The PermaTint Difference

Silicate paint is very different than conventional latex or acrylic paint – conventional paints stick (or mechanically bond) to the surface they are applied to and do not allow the surface to breathe. Acrylic/Latex paints commonly fail due to aging of the resin or from the moisture trapped underneath the paint coat. When exposed to rising temperatures the trapped moisture tries to evaporate, but is retained by the impermeable paint film. As a result the water-vapors lift the paint film (blistering) and cause it to fail prematurely (peeling).

Inorganic Mineral Paint bonds to the inside of the surface by chemical reaction (crystallization) and leaves the surface completely breathable (Perm 78). Unlike latex/acrylic resins, minerals do not age. Silicate paint does not form a film, but bonds by penetrating into the surface and by petrification into a stone-like micro-crystalline coating, which repels liquid water, but allows water-vapors to pass through. Therefore PermaTint Silicate Paint cannot blister or peel – guaranteed by the laws of chemistry.

Environmental & Health Reasons for using Silicate Paints:

- Unprecedented Durability (results in decrease in paint usage over a building's life cycle)
- Anti-microbial without fungicides
- Solvent-free
- 0 VOC
- 97% Mineral content in water
- Abundant raw material availability

Advantages and Key Attributes:

- Durability
- Breathability/Vapour-permeability
- Odourless
- Anti-Microbial
- Non-Combustible
- Lightfastness (impervious to UV)
- Resistance against acid rain

Surfaces suitable for Silicate Coatings:

Ideal are wall and ceiling surfaces made of concrete, brick, masonry, cement plasters, stucco, natural stone or drywall. Surfaces must be clean, rigid, absorbent and chemically neutral or alkaline. Do not use on metal or wood.

Application:

Read and understand instructions before you start. Some surfaces may require a pre-treatment with # 1050 PrimaSil, a Silicate Primer – Conditioner. Surfaces must be clean of dust and oily residues.

Apply 1 – 2 coats by roller, brush or spraying. See Technical Data Sheet of the specific product.



Finishes:

PermaTint offers a semi-transparent mineral stain (1020 SiLazur) and an opaque mineral paint (1010 QuartzGuard). The difference between these two finishes is similar to the difference between staining a piece of wood and painting a piece of wood.

1020 SiLazur will leave some background variation showing through, and can be diluted as much as desired with 1050 PrimaSil in order to increase transparency.

1010 QuartzGuard is formulated to produce a completely uniform, opaque finish while still leaving the surface completely breathable.

