

PERMATINT™



Technical Data Sheet

#1010 QuartzGuard

Interior & Exterior Silicate Dispersion
Paint for Concrete, Stone, Bricks, Concrete Block,
Lime and Cement Mortar, Plaster and Drywall





Properties

#1010 QuartzGuard is a highly durable interior & exterior silicate dispersion paint due to its vapour permeability and chemical bonding with the substrate. It is non-combustible, fire retardant, washable and bonds & cures after penetrating the substrate and petrification of the quartz binder. QuartzGuard is 96% mineral-sourced in a water base, a property which makes it odourless within hours (zero VOCs) and gives it microcrystalline properties of natural stone. It doesn't blister or peel, is water repellent and dries to matt finish with a life expectancy of 20 years or more.

Where to use

#1010 QuartzGuard Silicate Dispersion Paint can be used on most rigid and absorbent exterior and interior wall surfaces. Ideal are mineral-based surfaces such as concrete, lime & cement plaster (stucco), brick, stone or old powdery stucco, if it has been solidified by a mineralizing coat of #1050 PrimaSil. Not suitable for wood (not stable), plastic, metal (non-absorbent) and floors (too much abrasion).

Important for proper product performance is a proper preparation of the substrates:

-  The substrate must be chemically neutral or alkaline, free of dust and fatty or other separating substances. If necessary or as a precaution, power-wash with TSP solution.
-  Loose or powdery particles from weathered mineral surfaces must be removed or stabilized with #1075 Masonry Strengthener.
-  Old paint coats that restrict the surface absorbency must be removed, i.e. old glossy latex and alkyd paints have to be 90% removed. Old Lime paints can be compatible but should be checked for adherence. Very absorbent surfaces must be primed & saturated with 1 coat of #1050 PrimaSil.
-  The surface MUST be dry, with a moisture content less than 20% to ensure proper penetration into the substrate and allow curing to occur.

Disclaimer:

All directions in this technical data sheet are given in good faith to help you to achieve the desired results. However due to unpredictable circumstances no legal liability can be based on this content. By purchasing this product, the user assumes full responsibility for testing its suitability for the intended purpose including any consequential liability arising from its use. The manufacturer's liability is limited to the replacement of faulty product.

Colours

Over 150 standard colours.
Custom tinting is available with a minimum volume requirement per colour.

Coverage

approx. 300 sq ft. per gallon
(varies with surface material, texture and pre-treatment).

Drying Time

Depending on the temperature and the relative humidity, dry to touch after 2 hrs, but allow min. 12 hrs before applying 2nd coat.

Application

Stir well before using. Do not apply at working temperatures (surface + air) below 5° C or above 45° C. Apply 2 coats by brush, roller or airless sprayer after proper surface preparation. Final coat to be applied continuously wet-in-wet especially when using stronger tinted colours.

Cleaning

Wash tools with warm water and soap.

Storage

Keep containers tightly sealed in a cool, dry and frost-free place. Shelf life is min. 24 months in unopened containers.

Safety

Keep out of reach of children.
Do not empty wet paint into drains or water courses, but let dry and discard solid leftover with regular garbage. Use goggles & protective gear when working overhead.

Ingredients

water, potassium silicate, mineral fillers & extenders, earthen & mineral pigments, < 5 % acrylic stabilizer, ammonia solution, polysaccharide, cellulose, sodium phosphonate, fatty acid defoamer, hydrophobing agent



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General Preparation

Surfaces must be rigid & absorbent, dry (less than 20% moisture content), clean and free of dust, oily residues and chemically neutral or alkaline. Remove any loose particles and make good with cementitious filler. Old coats of latex or alkyd paints must be removed, since they inhibit penetration of the silicate binder into the substrate and vapour-permeability. Flaking or peeling paints must be removed completely. Carefully protect all adjacent glass, metal, ceramic etc against splatters. Remove unavoidable splatters immediately with water.

Note:

Silicate Paint products are alkaline. (pH = 8.5 - 9.5)

Old Exterior Lime & Cement Stucco and Other Highly Absorbent Mineral Surfaces

If there are loose particles, remove and solidify the substrate with #1050 PrimaSil or #1075 Masonry Strengthener. Seek manufacturer's advice regarding which product to use. Then apply one coat of #1010 QuartzGuard diluted with up to 20% #1050 PrimaSil and a second coat of #1010 QuartzGuard undiluted.

New Exterior Concrete, Mortar Stucco etc.

Make sure surfaces are fully cured, i.e. min. 30 days old at time of painting. Remove or neutralize any oily residues such as forms release agents, etc. Apply 1 Primer coat of #1010 QuartzGuard diluted with 20% #1050 PrimaSil plus one coat of #1010 QuartzGuard exterior/interior silicate mineral paint undiluted for best results.

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Breathability

Technically breathability is measured as **Water Vapour Permeance and it can be expressed in US-perms or in Metric-perms.**

Comparative Data:

1 coat of latex paint = 1.2 US-perms.

2 coats of latex paint = 0.7 US-perms.

2 coats of #1010 QuartzGuard = 77.5 US-perms.

This means a standard 2 coat application of our Interior & Exterior Silicate Dispersion Paint has approximately 100 X the Water Vapour Transmission rate of a 2 coat Latex Paint and is in the same range as house wraps, which are specially designed for optimal water vapour permeance.

RESISTANCE AGAINST PENETRATING RAIN IS EQUALLY IMPORTANT, WHEN PAINTING EXTERIOR SURFACES.

An independent US - test laboratory from Brooklyn, NY has tested the "Resistance against Wind-driven Rain" in accordance with ASTM D 6940 on #1010 QuartzGuard Interior & Exterior Silicate Dispersion Paint.

Test Results:

#1010 QuartzGuard complies with the qualitative requirements stated in US Federal TT-C-555B "Coating, Textured for interior and exterior masonry surfaces." -3.3.3

Resistance against wind-driven rain, from which ASTM D 6940 has been derived.