

ACMS LLC

Technical
Data
Sheet

#1020 SiLazur

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



Properties

#1020 SiLazur is a highly durable Silicate Dispersion Stain for interior and exterior use. It is breathable, anti-microbial, mildew resistant, non-combustible, flame retardent, washable and bonds by soaking into the surface. This product cures by petrifying and molecularly bonding to the substrate. SiLazur is 96% mineral sourced in a water base. It is odourless within hours (zero VOCs) and displays all the properties of natural stone (i.e. it is water vapour permeable). It does not blister or peel, is water-repellent and has a life expectancy of 20 plus years.

Where to use it

#1020 SiLazur Silicate Dispersion Stain can be used on rigid, absorbent, mineral based, chemically neutral wall surfaces. Ideal are mineral-based surfaces such as concrete, lime & cement plaster (stucco), unglazed brickwork and even old powdery stucco and natural sandstone after it has been solidified with a coat of #1050 PrimaSil. Not suitable for: wood (not stable), plastic, metal (not absorbent), floors (mechanical abrasion) and gypsum plaster (not chemically neutral).

Surface preparation is important for proper product performance:

-  All surfaces must be chemically neutral or alkaline (if unsure, pressure-wash with TSP solution).
-  Loose and powdery particles on old mineral surfaces must be removed or stabilized with 1 coat of PrimaSil clear.
-  Old film-forming paint coats (latex and alkyd paints) that restrict the surface absorbency must be removed completely. Very absorbent surfaces must be primed / saturated with 1 coat of # 1050 PrimaSil.

Colour	white and 9 full-tone colours , all colours come as solid stains, but can be diluted with #1020 SiLazur clear to a semi-transparent coating. The color brilliance of transparent stains can be increased by painting them over a light undercoat of #1010 Quartz-Guard . Custom tinting is available depending on order quantities.
Coverage	approx. 240 sq ft. per gallon (varies depending on surface type, pretreatment and dilution)
Drying Time	Depending on temperature and relative humidity, dry to touch after approx. 1-2 hrs , but allow at least 12 hours for thorough drying before re-coating
Application	Stir well before use. Do not use if the working (air + substrate) temperature is below + 5 °C or above + 45 ° C. Apply by brush, roller or airless sprayer depending on surface roughness.
Cleaning	Wash tools with warm water and soap immediately after use.
Storage	Keep containers tightly sealed in a cool, dry and frost-free place. Shelf life is min. 24 months in unopened containers.
Safety	Keep containers tightly sealed . K eep out of reach of children. Do not empty into drains or water courses, but let dry and discard solid leftovers with regular garbage. Use goggles and protective gear when working over -head.
Ingredients	water, potassium silicate, earthen & mineral pigments, pure acrylate stabilizer, ammonium solution, polysaccharide, cellulose, sodium-phosphonate, fatty acid defoamer, hydro-phobing agent.

Disclaimer:

All directions in this technical data sheet are given in good faith to help you to achieve the desired results. 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.

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General Preparation

Surfaces must be rigid, absorbent and chemically neutral or alkaline, dry, clean and free of dust, oily residues and grease. Remove any loose plaster and make good with cementitious filler. Old coats of latex and alkyd paints must be removed completely to restore surface absorbency. Protect adjacent glass, metal, ceramic etc against splatters and remove unavoidable splatters immediately with water.

Note: Silicate Paint products are slightly alkaline. (pH = 8.5 - 9.0)

Old Lime and Cement Stucco, High Absorbent Mineral Surfaces - Outdoors

Solidify powdery, sandy mineral surfaces such as mortar stucco, adobe, sandstone, concrete or old unglazed bricks with one conditioning coat of #1050 PrimaSil straight. #1020 SiLazur is available as an opaque to semi-transparent coating. Details to be discussed with our sales staff.

Concrete, Mortar Stucco, etc. - Outdoors

On new concrete etc. make sure surfaces are fully cured, i.e. min. 30 days old at time of painting. Remove any oily residues such as form release agents, etc. On old cleaned /restored concrete use 1 coat diluted with up to 10% #1050 PrimaSil plus 1 coat undiluted.

Tinting #1020 SiLazur:

In small quantities: Full tone SiLazur can be mixed to create different shades. For added depth of colour and less transparency they can be added by creating a paste with #1050 PrimaSil and thoroughly mixing.

To increase transparency, add SiLazur Clear (00). Pigment content should not exceed 15% by weight. For more brilliant colour shades use semi-transparent tinted SiLazur over a white base of #1010

QuartzGuard for both indoor and outdoor applications.

In large quantities: Custom tinting is available with a minimum volume requirement.

Mix thoroughly with an electric drill mixer (2500 RPM) or equivalent. Do not use other manufacturers' tints or pigments with Silicate Paints, since they may be silicate-resistant or not sufficiently light fast.

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