

KEIM CONCRETAL W®

For masonry and concrete

FEATURES & BENEFITS

KEIM CONCRETAL W® is based on a sol-silicate, or water-glass binding agent. It delivers excellent hiding and working properties, is non-yellowing and contains only absolutely light-resistant inorganic colour pigments. Plus, it protects concrete substrates from harsh weather and is available in a smooth or texture finish.

- » Mineral matte, natural appearance
- » Non film forming - penetrates and forms chemical bonds with concrete - won't peel or lose adhesion
- » Incombustible and safe to use - Class A Building Material
- » Anti-static - dirt won't cling and washes off naturally with rainfall
- » Lightfast pigments - colours will not fade
- » Extremely weather and pollution resistant
- » Water-repellent
- » Extremely vapour permeable - allows concrete to breathe naturally
- » Hinders fungal and algal growth thanks to ideal moisture balance - no pesticides added
- » Extremely low VOC - environmentally friendly

CONCRETAL W® High Performance Sol-Silicate Finish for Concrete is a protective concrete paint system that penetrates, forming covalent chemical crystalline bonds with concrete. CONCRETAL W® offers the highest level of water repellency and weather protection coupled with outstanding application properties. It contains only lightfast inorganic pigments and mineral fillers so colours will stay true, without fading. It is highly alkali and efflorescence resistant and can be applied to concrete surfaces with a pH of 6-13.

- Apply directly to fresh concrete (at least 7 days old) and Shotcrete/Gunite after 3 days
- Prevents penetration of Chloride salts and other pollutants
- Outstanding application properties and final appearance
- No primer required - 2 coat system
- Excellent moisture vapour diffusion while providing a weather proof and water repellent finish

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

The substrate must be sound, dry, absorbent, clean and free from dust and grease. Loose areas, dirt, oily substances, release agents, curing compounds, moss and algae must be completely removed.

Existing film-forming coatings which are not sound or which impair the vapour diffusion must be removed with paint stripper or by mechanical means.

Highly absorbent, sanding surfaces

Pretreat by saturating surface with KEIM Fixativ, mixed with 3 parts water, and allow to dry for 12 hours.

New Portland Stucco

Sinter layers on new Portland stucco or stucco repairs should be pretreated with KEIM Lime Remover, rinsed and allowed to dry.

New Concrete Surfaces

Remove all release, form or curing oil residues with KEIM Concrete Cleaner, rinse and allow to dry. In some cases sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Concrete and mortar must be cured at least 7 days at 75°F. Clean, strong and sound concrete requires no pre-treatment.

Filling Concrete Imperfections

Fill bug holes, air pockets, non-moving cracks, and other voids with CONCRETAL Fine Filler. Rough surfaces can be filled to provide a smooth surface. One or two base coats of CONCRETAL W Texture Base Coat may be applied to level surfaces and to fill non-moving hairline cracks.



COLORS FOREVER.

KEIM CONCRETAL W®

FIELD OF APPLICATION

Expressly formulated for use on cast-in-place and precast concrete surfaces, CMU, lightweight, GFRC and high performance concrete, asbestos cement and fiber cement boards. For use on interior or exterior surfaces where added protection is needed.

PACKAGING

Quart, Gallon and 4 Gallon

STORAGE

Approx. 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

CLEANING

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Tools should be kept in the paint material or in water during work breaks.

ENVIRONMENTAL COMPLIANCE

» EPA (United States Environmental Protection Agency)	YES
» LEED (Leadership in Energy and Environmental Design)	YES
» CARB (California Air Resources Board)	YES
» SCAQMD (South Coast Air Quality Management District)	YES

APPLICATION

KEIM CONCRETAL W® may be applied by brush, roller or airless spray.

- Brush - Use a nylon/polyester brush
- Roller - Use a ½" to ¾" nap synthetic roller cover
- Airless Spray
 - Pressure: 3000 psi, minimum
 - Tip: .031 in, minimum

First coat

CONCRETAL W may be diluted up to 15% with KEIM Concrete Dilution depending on the substrate's absorbency. Allow to dry 12 hours or overnight before recoating.

Top coat

Apply CONCRETAL W undiluted. There is no recoat window after the first coat has dried.

NOTE: For extreme weather conditions or critical, intensive colour shades it is recommended to apply a three-coat system.

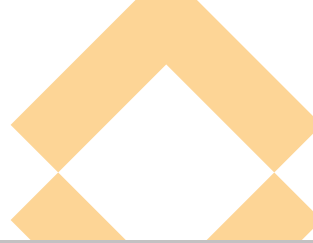
COLOUR SHADES

White and all colours of KEIM's Palette exclusiv colour collection. Custom colour matches available.

PERFORMANCE

Substrate	Coverage*
Cast or Pre-Cast Concrete	300-350 PC/GAL
Fiber Cement Siding	275-325 PC/GAL
Portland Stucco	150-200 PC/GAL
CMU Block (smooth)	100-150 PC/GAL
CMU Block (split faced or fluted)	50-100 PC/GAL
Gunite/Shotcrete	100-150 PC/GAL
Brick/Masonry	250-300 PC/GAL

*Note: Stated values are based on our experience on smooth surfaces. Surface texture, porosity, application conditions and type of equipment used will all vary consumption. Only a test application, using desired mixing ratio and under production conditions will forecast consumption of the system components accurately.



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APPLICATION CONDITIONS

Ambient and substrate temperature: 40°F and rising.

Do not apply in direct sunlight or on sun-heated substrates. Protect coated surfaces from direct sunlight, wind and rain during and after application for a minimum of 12 hours.

DRYING TIMES

Drying times are temperature, humidity and coverage dependent.

	40-50°F	50°F +
Touch	4-6 hours	2-4 hours
Recoat	24-48 hours	24 hours

MIXING WITH OTHER PRODUCTS

In order to maintain the specific features of CONCRETAL W and the related system products, they must not be mixed with other products or additives nor must they be diluted with water.

LIMITATIONS

KEIM CONCRETAL W® is a façade paint finish and should not be used on floors, roofs or decks or where water will collect. Not for use below grade.

DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations.

SPECIFICATIONS/SYSTEMS

For proper waterproofing and weather resistant performance, two coats of CONCRETAL W must be applied at recommended coverage rates. Surface should be fully coated, with no pin-holes, runs or holidays.

Cast or Pre-cast Bare Concrete

- Pretreat: Keim Concrete Cleaner
- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

CMU Block

For new, extremely porous block:

- 1 coat CONTACT-PLUS Block Filler
- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

Waterproofing System

- Pretreat: KEIM Silan 100 Silane Water Repellent
- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

Fiber Cement Board/Siding (bare)

- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

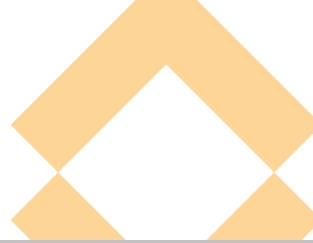
Gunite/Shot-Crete (bare)

- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

Previously Acrylic Painted Surfaces

- 1 coat CONTACT-PLUS Bonding Primer
- 1 coat CONCRETAL W (diluted up to 15%)
- 1 coat CONCRETAL W (full strength)

Do not apply to aged, oil base, epoxy or urethane coatings.



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CAUTION

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Product Code: M-SK 01

TECHNICAL DATA

SPECIFIC WEIGHT approx. 1.3 - 1.5 g / cm³

PH VALUE @ 20°C approx. 11

WIND DRIVEN RAIN

ASTM E514 Passes

WATER VAPOUR PERMEABILITY

ASTM E96 77 perms

ACCELERATED WEATHERING TEST

ASTM G154 Passes
- No change after 2016 hours

ALKALI RESISTANCE

ASTM D1308 Passes

MILDEW RESISTANCE

ASTM D3273/D3274 Passes

CHLORIDE ION PERMEABILITY

Permeability Class: Very Low

THERMAL EXPANSION

Comparable to the concrete substrate

GLOSS AT 85°

2.0 Mineral Matte Flat

FLASHPOINT

Non-Flammable

THERMAL EXPANSION

Comparable to the concrete substrate

COLOUR STABILITY

Colour code acc. To BFS A1 – Best in class rating
Tech. No 26 - No colour change after 4 years

VOC

< 1 g/L

Note: All test results performed on 2 coats Concretal W applied at 300-350 SF/GAL and 14 day cure @ 77°F & 50% RH

Note: The contents of this Technical Data Sheet are updated regularly. To ensure that you have the most recent version, please visit our website at the following address: www.king-masonry.com

This product is designed to meet the performance specifications outlined in this product Technical Data Sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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