BUILDING TRUST

PRODUCT DATA SHEET

SikaQuick® Pro VOH

Fast setting vertical & overhead repair mortar

PRODUCT DESCRIPTION

SikaQuick® Pro VOH is a fast setting, one component, easy to use repair mortar for vertical and overhead applications on concrete and mortar surfaces.

USES

- Quick repairs to vertical & overhead surfaces on grade, above and below grade
- As a structural repair material for:
  - Driveways / Patios / Steps / Basements / Balconies / Foundations
- A fast setting material for new construction defects

CHARACTERISTICS / ADVANTAGES

- Fiber reinforced & polymer modified
- Contains corrosion inhibitors
- Apply up to 3" on vertical surfaces in one layer
- Overhead application up to 2"
- High early & ultimate strength
- High bond strength ensures excellent adhesion
- Easy to use - Just add water
- Fast finishing time
- Minimal wait time between layers
- Suitable for interior & exterior applications
- Increased freeze/thaw durability & resistance to deicing salts

PRODUCT INFORMATION

Packaging	44 lb. bag
Color	Gray powder
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging.
Storage Conditions	Store dry at 40–95°F (4–35°C) Protect from moisture. If damp, discard material.

TECHNICAL INFORMATION

Compressive Strength		**73°F (23°C)**	(ASTM C-109) 73°F, 50% R.H.
	3 hours	> 1,500 psi (10.3 MPa)	
	1 day	> 3,000 psi (20.7 MPa)	
	7 days	> 4,500 psi (31.0 MPa)	
	28 days	> 5,500 psi (37.9 MPa)	
Modulus of Elasticity in Compression	7 days	2.2×10^6 psi (15.2 GPa)	(ASTM C-469)

Flexural Strength	1 day	400 psi (2.8 MPa)	(ASTM C-293) 73°F (23°C) 50% R.H.
	7 days	600 psi (4.1 MPa)	
	28 days	1,000 psi (6.9 MPa)	
Pull-Out Resistance	> 250 psi (1.7 MPa) Substrate failure		(ASTM C-1583) 73°F (23°C) 50% R.H.
Shrinkage	< 0.05 %		(ASTM C-157 modified per ASTM C-928)
Rapid Chloride Permeability	28 days	Low range	(ASTM C-1202 AASHTO T-277)
Slant Shear Strength	1 day	1,000 psi (6.9 MPa)	(ASTM C-882 modified*)
	7 days	1,600 psi (11.0 MPa)	
	28 days	2,000 psi (13.8 MPa)	
	*Mortar scrubbed into substrate at 73 °F (23 °C) and 50 % R.H.		
Splitting tensile strength	1 day	200 psi (1.4 MPa)	(ASTM C-496) 73°F (23°C) 50% R.H.
	7 days	250 psi (1.7 MPa)	
	28 days	500 psi (3.4 MPa)	

APPLICATION INFORMATION

Mixing Ratio	6-6.5 pints per bag		
Coverage	0.44 ft³ per bag Coverage figures do not include allowance for surface profile and porosity or material waste		
Layer Thickness		**Min.**	**Max.**
	Overhead	1/8"	2"
	Vertical	1/8"	3"
Product Temperature	65 - 75°F		
Ambient Air Temperature	> 45°F		
Substrate Temperature	> 45°F		
Application Time	≈ 15 minutes		
Waiting Time	Time between layers	Final set time	
	Acrylic water based coating	4 hrs	
	Epoxy/PU based coating	6 hrs	
	*Compatibility and adhesion testing is always recommended before coating.		
Thinner	10-12 minutes		(ASTM C-266)
Final set time	< 35 min *To control setting time, cold water should be used in hot weather and hot water should be used in cold weather.		(ASTM C-266)
Finishing time	20-30 minutes		
Fresh mortar density	125 lb/ft³		(ASTM C-138)

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Do not use solvent based curing compounds.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.
- Remixing product after it begins to set is prohibited.
- Bonding agents like Sika® Armatec® 110 EpoCem and others, which cure at a slower rate than SikaQuick® Pro VOH, should not be used. If bonding agents are used, follow cure times for the bonding agents used as a guide prior to putting SikaQuick® Pro VOH in service. Assure suitability with the manufacturer of the bonding agent.
- If a bonding agent is absolutely necessary, and surfaces are not scheduled to receive a vapor barrier coating, consider Sikadur® 32, Hi-Mod and moist cure for a minimum 24 hours prior to putting SikaQuick® Pro VOH into service.
- SikaQuick® Pro VOH is not a vapor barrier after cure.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Surface must be clean, sound and free of frost.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- Preparation work should be done by high pressure water blast, scabbling or other appropriate mechanical means to obtain an exposed aggregate surface profile of ±1/16" (1.6 mm) (CSP-5). To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test.
- Saw cutting of edges is preferred and a dovetail is recommended.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.

PRIMING

- Reinforcing steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occured due ro the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult PDS).

- Concrete substrate: A scrub coat of SikaQuick® Pro VOH can be applied prior to placement of the mortar. The repair mortar must be applied into the wet scrub coat before it dries.

MIXING

- Wet down all tools and mixer to be used.
- Mix mechanically with a low-speed drill (400–600 rpm) and mixing paddle or mortar mixer.
- Mix to a uniform consistency, **maximum 3 minutes.**
- Manual mixing can be tolerated only for less than a full bag.
- Thorough mixing and proper proportioning of the powder and liquid is necessary.
- Inaccurate proportioning of the powder to liquid will result in a finished product that may not conform to the typical published performance property values.

With Water

- Start mixing with 6 pints (2.8 L) of water per bag.
- Adjust the water dosage by a maximum amount of ± ½ pint, if necessary, to achieve the desired consistency.
- **Do not over-water**. Over-watering may result in difficulty handling and/or not meeting stated property values.

With SikaLatex® R

- Start mixing with 6 pints (2.8 L) of Sika Latex® R per bag.
- Adjust the SikaLatex® R dosage by a maximum amount of ± ½ pint, if necessary, to achieve the desired consistency.
- **Do not overdose** with SikaLatex® R. Using too much SikaLatex®-R may result in difficulty handling and/or not meeting typical published performance property values.

APPLICATION

- The mixed SikaQuick® Pro VOH must be worked well into the prepared substrate, filling all pores and voids.
- Compact well. Force material against edge of repair working towards the center. Thoroughly compact the mortar around exposed reinforcement.
- After filling repair, consolidate, then screed.
- Finish with steel, magnesium, wood, plastic floats, or damp sponges, depending on the desired surface texture.

MULTIPLE LIFTS

- Where multiple lifts are required, score top surface on each lift to produce a roughened substrate for next lift.
- Allow preceding lift to harden and achieve initial set before applying fresh material.
- SSD previous lift by lightly misting with clean water.

Remove all standing droplets.
- Repeat procedure until desired installation thickness is achieved. Finish the final lift of SikaQuick® Pro VOH as described above.
- If previous layers are over 6 hours old, mechanically prepare the substrate and dampen.

CURING TREATMENT

Proper curing is critical for sound results. Curing means maintaining proper moisture.

1. Covering the material with polyethylene (plastic) sheeting is a sufficient way to help retain moisture. Place plastic as soon as the material has set (lost it's sheen).
2. If surface begins to appear dry remove the plastic and sufficiently moisten the surface and replace the plastic.
3. Protect freshly applied mortar form direct sunlight, wind, rain and frost.

CLEANING OF TOOLS

- Uncured product may be cleaned from tools and surfaces with water.
- Cured product must be removed mechanically.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**

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