



DESCRIPTION:

VOH is a one part, polymer modified, fast setting, silica fume, fiber reinforced mortar designed for vertical and overhead repairs from 1/8" to 2" in one application. Contains a migrating corrosion inhibitor.

USES:

Overhead and vertical repairs to spalled areas or broken concrete walls, columns, beams, concrete pipe, piers, and other masonry surfaces where forming is impractical. Thicker repairs can be achieved by applying in multiple lifts. Successive lifts can be made at anytime after initial set has taken place.

SURFACE PREPARATION:

All areas to be repaired must be clean and sound with no dirt, dust, form oil, curing compound, paint or any substance that would prevent the patch from coming in contact with the open pores of the concrete or masonry. Removal by mechanical means to a CSP of 3 or greater Dampen the area prior to placement leaving no puddles or glistening water on the surface to a saturated, surface dry condition. (SSD). In some cases the use of a latex or epoxy primer could be considered.

APPLICATION:

Place clean cool water in mixing pail, add powder and mix by hand or with a drill and paddle mixer to reach desired consistency. Place material on patch area and smooth with flat trowel or wood float. Let material set a few minutes, then finish with float, trowel or brush for desired texture. The water demand is approx. 1 gallon to 50 pounds of powder; However, in hot weather, smaller amounts should be mixed due to the rapid set times.

LIMITATIONS:

Place material in temperatures between 40 F and 100 F. Cooler temperatures: Warm material, water and patch area and keep above 40 F for 24 hours after placement. Attempt to keep warm after placement for increased early strength. Hotter temperatures: Mix patch with cold or iced water. Store powder in cool or shaded area before mixing. When possible, damp curing can be effective.

CLEAN UP:

Clean-up is simple and easy with soap and water before material hardens.

PRECAUTIONS:

Contains Portland cement: avoid eye contact and prolonged contact with skin. Wash hands thoroughly after handling. In case of eye contact, flush with water for at least 15 minutes. (DO NOT RUB EYES) Consult a physician immediately. Keep out of reach of children. Contains free silica. Do not breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica quartz. Wear approved respirator. See material safety data sheet for detailed information.



COVERAGE:

Volume yields .45 cubic feet per 50 lb. bag.

PACKAGING:

Packaged in a 50 lb. poly-lined bag or 50 lb. plastic pail.

COMPRESSIVE STRENGTH:	ASTM C-39	Air Cure	24 hours – 5000 PSI
		6 hours – 3000 PSI	28 days – 7000 PSI
FLEXURAL STRENGTH:	ASTM C-293	7 days – 600 PSI	28 days – 990 PSI
BOND STRENGTH:	ASTM C-882	3 days- 2200 PSI	
SHRINKAGE:	ASTM C-157	3 days -0.003%	14 days -0.016%
		7 days -0.007%	28 days -0.022%
SETTING TIMES:	77° F	Initial Set: 15-30 minutes	Final Set: 20-30 minutes Hot Temp. = Set
		Colder Temp. = Set Slower	Faster