



Hard-Rok™ VERTIPATCH

PRODUCT DESCRIPTION

VertiPatch is single-component; polymer modified vertical and overhead repair system. **VertiPatch** forms an integral bond to existing concrete, develops rapid strength and restores structural integrity.

GENERAL USES

For use over concrete: above, on or below-grade vertical and overhead surfaces. Applications thickness can be from 1/4" to 12" by applying layers. **VertiPatch** is a very dense material and provides protection against moisture.

FEATURES

- Just add water
- Easily applied
- Permanent repair
- Rapid strength
- High bond strength
- Dimensionally stable
- Freeze/thaw resistant
- Exterior or interior applications
- Apply up to 2" in one lift

Ordering Information			
Part#	Product	Packaging	Pallet Qty
HR-VP	VertiPatch	50 lb. bag	60

STANDARDS

ASTM C 928 modified

INSTRUCTIONS FOR USE

Surface Preparation:

Remove all unsound concrete, dirt, oil, grease and all material that may inhibit bonding. The surface should be profiled by mechanical means with a minimum profile of 1/8". Substrate should be saturated surface dry (SSD) without any standing water during application.

Mixing:

For application where more than one unit is used it is recommended that a mortar mixer be used. Wet down all tools and mixer. With mixer running, add minimum amount to water to produce a stiff, plastic consistency, followed by dry powder. Allow to mix for 2 to 5 minutes. Add more water if required. DO NOT exceed 7 pints of water per 50 pounds. Mix only enough material that can be placed in twenty minutes.

Quantities of one unit or less should be mixed with a low speed drill equipped with a paddle mixer.

APPLICATION

At time of application the surface should be saturated surface dry (SSD) with no standing water. Scrub mortar into the substrate, filling all pores and voids. Working from the edge of the repair, force the material into the corners and work toward the center. Each lift should not be less than 1/4" although this may vary slightly depending on the repair area. With multiple lifts, score the top surface of each lift to produce a roughened surface for the next lift. Saturate with water and scrub fresh mortar into the preceding lift. Allow mortar to set to desired stiffness and then finish as required.

NOTE: 1. Single lift applications are preferred with **VertiPatch**. The bond is achieved with the scrub coat on a properly prepared surface.

Curing:

VertiPatch is self-curing.

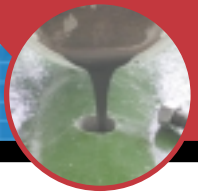
Cleaning:

Water cleanup prior to cure.

PACKAGING

- 50 lb. bags

CEMENTITIOUS PRODUCTS



TYPICAL PERFORMANCE DATA 72° OF 50% RH 7 PINT (7.3 LBS; 3.3 KG) OF WATER PER 50 LB BAG OF VERTIPATCH

Plastic	Hardened properties of VERTIPATCH						
	Properties	Method ASTM	3 hours PSI/MPa	24 hours PSI/MPa	3 days PSI/MPa	7 days PSI/MPa	28 days PSI/MPa
Working Time 10-12 min.							
Set Time ASTM C-266 initial - 18 min. final - 22 min.	Compressive Strength	C-109	1500/10	3000/21	4000/28	5000/35	6500/45
Flow ACTM C-928	Split Tensile Strength	C-496	—	—	390/3	—	520/4
Durability ASTM C-672, 50 cycles visual rating 0-1							
Packaging - 50 lb. bag (22.7 kg bag)	Slant Shear Bond	C-1042	—	970/7	—	1400/10	1800/12
Yield - .41 cu ft/50 lb. bag (0.011cu m/22.7 kg)	Length Change	C-157	—	—	—	—	0.002%

LIMITATIONS/WARNING

Minimum ambient and surface temperature of 40°F and not to decrease during the application and setting period.

- Do not featheredge.
- Do not over-water or retemper.
- Apply only on sound, properly prepared concrete surfaces.
- Must be mixed to uniform consistency.
- Refer to material safety data sheet prior to use.
- Avoid direct contact with skin and eyes.
- Product contains Portland Cement.
- May cause irritation and possibly cement burns.
- Wash exposed skin area promptly with water.
- In case of eye contact, flood eyes repeatedly with water and call physician.
- Do not take internally.
- Harmful if ingested.
- Keep product out of reach of children.
- Consult material safety data sheet prior to use.

TECHNICAL SERVICES

Adhesive Technology's Technical Service Department provides complete product and technical support.