

RUST-OLEUM®**PATCHCLAD™****HEAVY DUTY INDUSTRIAL FLOOR PATCHING****DESCRIPTION AND USES**

PatchClad™ floor patching material is a three component formulation of epoxy resin polymer, polyamine curative and carefully blended aggregate. An abrasion resistant, long lasting, and easily maintained floor patch used to repair floors deteriorated by physical abuse.

PatchClad is easily applied with a hand trowel. PatchClad is designed to meet a wide variety of industrial flooring needs where abrasion and impact resistance are required. PatchClad is suitable for food and beverage facilities when properly sealed with a Concrete Protection Systems Epoxy Floor Coating.

PatchClad will provide excellent service with moderate to severe physical abuse. If chemical exposure is anticipated, PatchClad must be sealed with either OverKrete™ OP or OverKrete™ Xtra OP.

FEATURES AND BENEFITS

- Suitable for food and beverage facilities.
- Fire resistant: PatchClad is a naturally fire resistant material due to the high percent of mineral aggregate contained in the product.
- Heavy load capacity: Has 2 to 3 times the load carrying capacity of concrete and is tough enough to resist the torture of the most severe traffic for long lasting service.
- Rapid turnaround time: Depending on ambient temperature, floors can be ready for foot traffic 8-10 hours after installation, with full mechanical use in 24 hours.
- Sanitary: PatchClad in combination with a Concrete Protection Systems Epoxy Floor Coating has extremely high density that resists gritting and traffic soil, will not support bacterial growth, will not hold odors, and is easily mopped clean and hosed. Will not dust.

PACKAGING

PatchClad is available in Navy Gray only and is packaged in one kit size: 0.375 cubic feet. The PatchClad kit includes PatchClad Primer (1 pint).

PRODUCTS

SKU	Description
237443	0.375 Cubic Foot Kit

Kit Includes:

- 1 pint PatchClad Primer
- 1 gallon Part A (Resin)
- 1 quart Part B (Activator)
- 1 bag Part C (Blended aggregate)

PRODUCT APPLICATION**SURFACE PREPARATION**

NEW CONCRETE: Laitance must be removed by muriatic acid etching, shot blasting or abrasive blasting. On concrete that does not take muriatic acid etching, shot blasting or abrasive blasting is required. New concrete should be cured for a minimum period of 28 days at 70°F prior to application.

EXISTING CONCRETE: Concrete must be sound, and old coatings and toppings must be removed. Concrete must be clean and free of previous coatings, oil, wax, and other contaminants. Water soluble contaminants should be hosed off with water. Water insoluble materials will require the use of a cleaner/degreaser or some other method of removal.

Concrete must be visibly dry at the time of application.

TOOLS REQUIRED

- Squeegee, paint roller, or paint brush.
- Steel finishing trowel.
- 3/8" electric drill, Jiffiler mixing blade or 5-gallon mortar mixer.
- Duct tape.
- Rags, xylene cleaning solvent.
- Safety glasses, gloves, soap and water.
- Vacuum cleaner.

PRIMING

PatchClad Primer is applied to the prepared concrete surface using; (a): a rubber squeegee and back rolled with a 3/8 inch nap roller or (b): a paint brush, depending on surface texture. Rate of application will vary depending on the surface roughness and porosity but keep in mind that the purpose is to "wet out" the concrete before application of the PatchClad. Make sure not to puddle the primer. At 75°F, working time will be approximately 2 to 3 hours. If the primer sets prior to application of PatchClad, re-prime the area.

MIXING EQUIPMENT

PatchClad is mixed using a 3/8 inch drill with a Jiffiler mixing blade or a 5 gallon bucket mixer with a side and bottom scraping attachment.

Important: With all material, hand mixing will produce inconsistent results and is not an approved method.



TECHNICAL DATA

PATCHCLAD™ HEAVY DUTY INDUSTRIAL FLOOR PATCHING

PRODUCT APPLICATION (cont.)

MIXING

Note: Before starting, ensure that the material, concrete surface, and the ambient air are all 65-90°F (18-32°C).

Mixing ratios are provided on the container labels.

Premix Part "A" (resin) in its container for 45 seconds to ensure that the pigment has been completely and evenly dispersed. Then pour the Part A into the mixing bucket.

Add Part "B" (activator) to the Part "A" in the mixing bucket. Mix for 45 seconds to ensure complete mixing.

Add Part "C" (PatchClad aggregate) to the Parts "A" and "B". Mix for an additional 45 seconds. The aggregate must be mixed until completely wetted out by the resin.

APPLICATION

The mortar is loosely placed in the area being repaired. It is then finished using a hand held steel finishing trowel. If the patch is to be sealed, after a 6-8 hour cure, light surface sanding may be done prior to sealing with OverKrete OP or OverKrete Xtra OP (at 165 sq. ft. per gallon).

CLEAN UP

Xylene can be used to remove material from equipment if it is cleaned before the material has started to set up. Otherwise, stronger solvents such as methylene chloride will be necessary.

If there are any questions on the use of this product, please contact our Technical Service Department.

SAFETY

PatchClad contains amine curing agents. Avoid skin contact. In case of eye contact or ingestion, contact a physician immediately. In case of skin sensitivity to these materials, use protective clothing and gloves.

PatchClad material is intended for industrial use only.

SAFETY DATA SHEETS

Safety Data Sheets are available upon request. It is strongly recommended that they be read by all persons handling PatchClad.

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C579

TYPICAL VALUE: 10,000 psi

FLEXURAL STRENGTH

METHOD: ASTM C580

TYPICAL VALUE: 3,150 psi, 7 days

MODULUS OF ELASTICITY

METHOD: ASTM C580

TYPICAL VALUE: 50,000 psi, 7 days

TENSILE STRENGTH

METHOD: ASTM C307

TYPICAL VALUE: 2,000 psi, 7 days

BOND STRENGTH TO CONCRETE

METHOD: ASTM D307

TYPICAL VALUE: Exceeds tensile strength of concrete (concrete fails first)

TABER ABRASION

METHOD: ASTM D4060 CS 17 Wheel

TYPICAL VALUE: Loss/1000 cycles = 30 mg.

WATER ABSORPTION

METHOD: ASTM C413

TYPICAL VALUE: 0.1% maximum

LINEAR SHRINKAGE

METHOD: ASTM C531

TYPICAL VALUE: 0.05% maximum

LINEAR COEFFICIENT OF THERMAL EXPANSION

METHOD: ASTM C531

TYPICAL VALUE: 3.4×10^{-5} in./in./°F

FLAMMABILITY

METHOD: ASTM D635

TYPICAL VALUE: Self-extinguishing

IMPACT RESISTANCE

METHOD: MIL-D-3134J

TYPICAL VALUE: Satisfactory per 3.15

COEFFICIENT OF FRICTION

METHOD: ASTM D2047

TYPICAL VALUE: 0.6 minimum

HARDNESS, SHORE D

METHOD: ASTM D2240

TYPICAL VALUE: 85



TECHNICAL DATA

PATCHCLAD™ HEAVY DUTY INDUSTRIAL FLOOR PATCHING

PHYSICAL PROPERTIES

		PATCHCLAD HEAVY DUTY INDUSTRIAL FLOOR PATCHING
Resin Type		Polyamine Converted Epoxy
Pigment Type		Titanium Dioxide
Solvents		Slight volume of xylene
Weight*	Per Gallon	9.0 lbs.
	Per Liter	1.08 kg
Solids*	By Weight	100%
	By Volume	100%
Volatile Organic Compounds*		<25 g/l (0.21 lbs./gal.)
Practical Coverage		0.375 cubic feet
Mixing Ratio		5:1 base to activator by volume
Induction Period		None
Working Time		2-3 hours
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Foot Traffic	8-10 hours
	Full Use	24 hours
	Full Cure	4 days
Shelf Life		2 years
Flash Point		>112°F (45°C)
Safety Information		AVOID SKIN CONTACT. IN CASE OF EYE CONTACT OR INGESTION, CONTACT A PHYSICIAN IMMEDIATELY. USE OF PROTECTIVE CLOTHING AND GLOVES IS RECOMMENDED. SAFETY DATA SHEETS (SDS) ARE AVAILABLE ON REQUEST. IT IS STRONGLY RECOMMENDED THAT THEY BE READ BY ALL PERSONS HANDLING OVERFLEX E.

* Activated material

Calculated values are shown and may vary slight from the actual manufactured material.

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