

# SILPRO

## EASY PATCH

Portland Cement-Based  
Sets In 12 – 15 Minutes  
Easily Shaped — No Forms Needed  
Low Shrinkage  
Apply 1/8" – 1" Per Lift; 2" Maximum

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Repairs to Concrete Dock

**Silpro Easy Patch** is a rapid-setting, low shrinkage, Portland cement-based repair mortar. Use it for patching and repairing concrete indoors or outdoors, above or below grade, without using forms. A 2" deep patch can be walked on in 4 – 6 hours and driven over in 10 – 20 hours.

Use **Easy Patch** for restoring damaged concrete where the molding and shaping of the finished surface is important. It can be carved and shaped as it hardens.

### USES

- Repair pre-cast, cast-in-place, block, brick, stucco.
- Fill honeycombed areas, voids, form-tie holes in poured concrete walls.
- Repair walls, corners, steps, columns, pilasters.
- Fast repairs of bridges, buildings, other concrete structures.
- Repair and set stubs in concrete pipe.
- Patch spalled, pitted, or damaged concrete.
- Apply over new (green) concrete the same day or the next day.

### ADVANTAGES

- Rapid-setting (12 – 15 minutes).
- Less shrinkage than concrete.
- Color similar to concrete.
- Make concrete repairs without forms.
- Resistant to freeze/thaw cycling.
- Does not contain calcium chloride.
- Use in vertical, overhead, and horizontal applications.
- Easy to place and finish.
- No forms required.
- May become polymer-modified by using **Silpro C-21 All Acrylic** in the mix.

### TEST DATA

Compressive Strength when mixed with  
4 quarts of water per 50# bag ASTM C-109

#### Test Data

1 Day — 3400	7 Days — 4600	28 Days — 6100
Specific Gravity	2.1	

### SURFACE PREPARATION

Remove loose material and deteriorating concrete. Remove oil, grease, form-release agents, and water-soluble materials. Rusted or corroded rebar must be wire brushed or sand blasted. Clean surface using water and/or vacuum or compressed air.

### APPLY A TEST PATCH

To confirm the suitability of the surface for adhesion of the coating, and that the final appearance and function will be as the owner, architect, and contractor expect, install a test patch at the maximum designed thickness anticipated on the project and subject it to anticipated service conditions before beginning the entire job.

### SURFACE CONDITIONING

Thoroughly dampen concrete surfaces with water to obtain a saturated surface dry (SSD) condition.

### PRIMING FOR POLYMER-MODIFIED EASY PATCH (WHEN MIXED WITH C-21)

Prime clean vertical and horizontal concrete surfaces with a complete coat of **Silpro C-21 All Acrylic** applied by brush, roller, or spray. Use a brush on all rough or uneven surfaces to get the **C-21 All Acrylic** into the crevices. Apply the **Easy Patch** while the **C-21 All Acrylic** is still tacky.

For Customer Service, Call Silpro at 1-800-343-1501

## PRIMING FOR POLYMER-MODIFIED EASY PATCH (WHEN MIXED WITH C-21) CONT.

**Tougher Applications — Slurry Coat:** Prime the clean metal and concrete with a slurry coat of Silpro C-21 All Acrylic and Portland cement mixed to a pancake batter consistency and brushed on. **Easy Patch** must be applied while the slurry coat is still wet.

## MIXING

### Mixing Liquid Proportions:

For maximum performance mix **Easy Patch** with undiluted C-21.

#### Use undiluted C-21 for:

- Horizontal surfaces exposed to wear or the weather.
- Thin-section applications (less than 1/2").
- Surfaces that will be subjected to wheeled or pedestrian traffic.

#### Use C-21 mixed 1:1 with clean, potable water for:

- Vertical applications, or enhanced performance of cosmetic applications.

#### Use water for:

- Honey-combed areas, form-tie holes, and voids in poured concrete.

### Mixing Ratio:

Use 4 quarts of mixing liquid per 50# bag of **Easy Patch**.

### Mixing Procedures:

**Mortar box and hoe:** Wet the mortar box with a little of the mixing liquid, add the **Easy Patch** powder, then add the rest of the mixing liquid.

**1/2" drill and a plaster-type mud paddle:** Place the mixing liquid in the container and add the **Easy Patch** powder.

Mix only long enough to achieve a lump-free, trowelable consistency. Do not over mix. Do not re-temper. **Do not mix more material than can be placed in 10 minutes.**

## APPLYING

Using a stiff bristle brush or gloved hand, scrub the mixed **Easy Patch** into the SSD surface. Immediately apply the **Easy Patch** to the wet scrub coat. **Do not let the scrub coat dry.**

**Easy Patch** may be placed by hand or troweled on in lifts of 1/4" to 1" thick scratching the surface of each lift. Wait 20-30 minutes for the **Easy Patch** to take a final set, saturate surface dry (SSD) the first lift with clean, potable water. Scrub the mixed **Easy Patch** into the SSD surface and apply the next lift. Continue this operation until final elevation has been achieved. Level, finish, and shape the repair immediately before final set has occurred.

**Easy Patch** can be applied down to 1/8" thick when mixed with undiluted C-21.

**Clean Up:** Immediately clean all tools with water. If **Easy Patch** is allowed to dry, it must be removed mechanically.

## HOT TEMPERATURES

In hot weather excessive surface temperature can draw moisture from **Easy Patch** at a rate that may cause the material to crack, craze, and not set properly. Mix with cool mixing liquid. Cool surface with clean, cold water.

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## CURING

**C-21 All Acrylic** modified coatings do not normally require dampening. If C-21 has not been used in the mix, or under hot, dry, windy conditions, keep the repaired area moist for one hour with a water mist or wet burlap.

## COATINGS

Apply Silpro's **Seal Cote**, for a waterproof finish, or apply other Portland cement-based finishes to make the area uniform in color and texture. Wait 60-90 minutes before applying. Wait 4 days before applying latex paint, if patch is 1/2" or less thick, or 7 days if patch is deeper than 1/2". Check with coatings manufacturers for waiting time guidelines.

## PACKAGE SIZE

50# Plastic lined bag (22.68 kg.)

## APPROXIMATE COVERAGE

Per 50# bag (23 kg.)

1/2 cubic foot (14 liters)

## SHELF LIFE

6 months

## LIMITATIONS

- **Easy Patch** should be applied only when the temperature of the air, surface, and material is above 40°F. (4°C.). Do not apply **Easy Patch** at temperatures below 50°F. (10°C.) if C-21 All Acrylic is used. Dry material and surface can be warmed with a torch.
- Do not use set-accelerator solutions.
- Protect the repair from high temperatures, direct sun, or wind.
- Reseal container immediately after use to keep contents dry.

## CAUTION!

Contains Portland cement and silica. Irritating to eyes and skin. Product is alkaline upon contact with water. During mixing and application avoid contact with eyes. In case of such contact, flood eyes repeatedly with water and CALL PHYSICIAN. Avoid breathing dust. Avoid prolonged contact with skin. Use of gloves is recommended. Wash hands thoroughly after use and before smoking or eating. Do not take internally.

### See Material Safety Data Sheet for detailed information.

Use adequate ventilation. The use of a NIOSH/MSA approved dust respirator, safety goggles, and protective gloves is recommended.

**FOR COMMERCIAL USE ONLY. NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN.**

Dispose of in accordance with local, state, and federal regulations.

In case of a medical emergency or for information regarding spillage clean up or disposal call INFOTRAC: 800-535-5053.

## GUARANTEE

Please call Silpro Corporation for copy of guarantee.

Made in the USA 3/04