

RPS-792LPL

Long Pot Life Epoxy Bonding Agent

SIMPSON

Strong-Tie

CSI Specification: 03 01 00 Maintenance of Concrete

DESCRIPTION

RPS-792LPL Long Pot Life Epoxy Bonding Agent is a two-component, 100% solids, moisture-tolerant epoxy resin designed to increase the bond between freshly placed repair mortars or concrete mixes and existing concrete.

SPECIFICATION COMPLIANCE

RPS-792LPL exceeds the performance requirements of ASTM C881, Type II, Grade 2, Class C.

ASSESSMENT

WHERE TO USE

- Bonding new concrete or repair mortar to existing concrete
- For warm-weather applications
- Where longer open times are required

FEATURES

- Bonds to both damp and dry concrete
- Can be applied by brush, roller, spray or squeegee
- 60-minute pot life at 70°F (21°C)
- 8-hour open time at 70°F (21°C) for repair mortar installation

PRODUCT DATA

All testing performed at 73°F (23°C) and 50% R.H. (+/- 2°F (1.1°C)), unless noted otherwise.

Generic Description

Epoxy bonding agent

Packaging

Kit Size	Model No.
3 US Gallon Kit (11.4 L)	RPS-792LPLKT3
15 US Gallon Kit (56.8 L)	RPS-792LPLKT15

Color

Amber

Mixing Ratio

2A:1B

Application Rate

60–100 ft.²/US gal.
(1.5–2.5 m²/L) depending on substrate porosity and surface profile

Pot Life

60 minutes 70°F (21°C)

Full Cure

7 days

Storage

Store dry between 40–95°F (4–35°C)

Shelf Life

2 years in unopened packaging

Solids Content

100% by volume

VOC

0 g/L (mixed)



TECHNICAL INFORMATION

The data herein is based on laboratory testing under controlled conditions. Variations may result from mixing methods and jobsite conditions. All testing performed at 73°F (23°C) and 50% R.H. (+/- 2°F (1.1°C)), unless noted otherwise.

Viscosity

ASTM D1084

5,000 cps

Gel Time

ASTM C881

1 hour

Absorption

ASTM D570, 1 day

0.16%

Heat Deflection Temperature

ASTM D648

133°F (56°C)

Compressive Yield Strength

ASTM D695, cured at 60°F (16°F) prior to testing

1 day	2,200 psi	15.2 MPa
2 days	6,300 psi	43.6 MPa
3 days	7,800 psi	54.0 MPa
7 days	8,100 psi	56.0 MPa

Compressive Modulus, 7 days

ASTM D695, cured at 60°F (16°F)

prior to testing
420,600 psi 2,900 MPa

Bond strength, 14 days

ASTM C882, moist cured at 60°F (16°F) prior to testing

Minimum: 1,500 psi 10.3 MPa

Tensile Strength, 7 days

ASTM D638, Type I mold
2,500 psi 17.0 MPa

Elongation at Break, 7 days

ASTM D638, Type I mold
2.90%

PLANNING**LIMITATIONS**

- For optimal performance, apply to surfaces between 60°F (16°C) and 110°F (43°C)
- Repair mortars must be applied while RPS-792LPL is still tacky
- Material is a vapor barrier after cure, contact Simpson Strong-Tie for use in exterior on-grade applications
- Existing concrete should be fully cured prior to application

PREPARATION**SURFACE PREPARATION**

Concrete surface must be sound, clean and free of all contaminants that could impair product adhesion, bond or performance. Concrete should be a minimum of 28 days old or substantially cured to the equivalent design strength prior to RPS-792LPL installation. Prepare concrete in accordance with ICRI Guideline 310.2R CSP 5-9, taking care to avoid micro-cracking. Remove all loose or deteriorated concrete by chipping hammer, water jetting, or other mechanical means to achieve an open pore structure and sound concrete surface. Remove all cleaning media and debris by vacuum or blowing with high-pressure, oil-free air.

MIXING

For optimal product performance, condition individual components to 70°F (21°C) and mix thoroughly prior to use. Do not prepare more material than can be used in the pot life of the product. Proportion Component “A” and Component “B” at a 2A:1B ratio by volume in a clean pail. Mix thoroughly with a low-speed (300–600 rpm) drill and mixing paddle for 3 minutes, scraping unmixed material from sides and bottom of mixing container as needed. Avoid entrapping air into mixture.

EXECUTION**APPLICATION**

Remove all standing water by vacuum or blowing with oil-free, compressed air prior to installation. RPS-792LPL can be installed on damp or dry surfaces. Do not install through standing water. Avoid installing at high temperatures or windy conditions to maximize open time. Avoid applying in direct sunlight.

Apply RPS-792LPL Epoxy Bonding Agent by brush, roller, spray or squeegee at a rate of 60–100 ft.²/US gal. (1.5–2.5 m²/L), depending on surface profile and porosity. Immediately install repair materials or concrete mix into wet RPS-792LPL. Do not allow RPS-792LPL to dry or become tack-free before concrete or mortar installation. If RPS-792LPL does dry or becomes tack-free, abrade surface and recoat. Do not apply more bonding agent than can be effectively covered with repair mortars or concrete mixes while remaining wet.

CAUTION

Component “A”: WARNING! Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long-lasting effects.

Component “B”: DANGER! Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long-lasting effects.

Protective Measures: The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of a NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheet (SDS) available at strongtie.com/sds for detailed information.

FIRST AID

Eye Contact: Hold eyes open under running water for 15 minutes. Seek medical advice.

Skin Contact: Wash skin with soap and water. Seek medical advice if irritation develops.

Inhalation: Remove affected person to fresh air. If necessary, use artificial respiration. Seek medical advice.

Ingestion: If product is swallowed, call physician or poison control center. DO NOT INDUCE VOMITING, or give diluents to someone who is unconscious, having convulsions, or unable to swallow. Seek medical advice.

CLEAN-UP

Spills: Construct a dike to prevent spreading. Soak up with absorbent material such as clay, sand or other non-reactive material. Place in leak-proof containers. Keep out of sewers, storm drains, surface waters, and soils.

Surface Clean: Clean spills and drips from surfaces with solvent (MEK, acetone, etc.). Cured material can only be removed by mechanical means.

Tools and Equipment: Clean all tools and equipment with solvent (MEK, acetone, etc.). Cured material can only be removed by mechanical means.

Skin: Use a non-toxic pumice-based soap, citrus-based hand cleaner, or waterless hand cleaner towel. Never use solvents to remove product from skin.

Disposal: Dispose of container and unused contents in accordance with federal, state, and local requirements. Containers may be recycled; consult local regulations for exceptions.

LIMITED WARRANTY

This product is covered by the Simpson Strong-Tie RPS Product One-Year Limited Warranty, which is available at strongtie.com/limited-warranties or by calling Simpson Strong-Tie at (800) 999-5099.

IMPORTANT INFORMATION

It is the responsibility of each purchaser and user of each product to determine the suitability of the product for its intended use. Prior to using any product, consult a qualified design professional for advice regarding the suitability and use of the product, including whether the capacity of any structural building element may be impacted by a repair. As jobsite conditions vary greatly, a small-scale test patch is required to verify product suitability prior to full-scale application. The installer must read, understand and follow all written instructions and warnings contained on the Limited Warranty, product label(s), Product Data Sheet(s), Safety Data Sheet(s) and the strongtie.com website prior to use. For industrial use only by qualified applicators. KEEP OUT OF REACH OF CHILDREN!

 **WARNING!** Cancer and reproductive harm — www.P65Warnings.ca.gov.