

## TECHNICAL DATA SHEET

### DESCRIPTION

Pro-Poxy 100 is a 100% solids, high modulus, moisture tolerant, low viscosity epoxy adhesive for gravity feed or pressure injection of cracks in concrete.

### USE

The primary use of the Pro-Poxy 100 is for pressure injection and gravity feed crack repair in concrete and masonry. Pro-Poxy 100 can also be used to seal interior slabs and exterior above-grade slabs.

### FEATURES

- High modulus, high strength adhesive
- Low viscosity, for deep penetration
- Moisture tolerant
- V.O.C. Compliant
- Packaged in cartridges and gallon units
- High chemical resistance
- Certified to conform to NSF/ANSI Standard 61 by WQA



### PROPERTIES

Meets ASTM C-881/ AASHTO M-235, Types I, II, IV, V\*  
Grade 1, Classes B & C  
(\*with exception of gel time)

Mix ratio: 2:1, Part A to Part B by volume

Color (mixed): Amber

Viscosity: 518 cps

Gel times: 60 gm mass 21 Minutes @ 73°F (23°C)

Final cure @ 7 days.

Compressive yield strength (ASTM D-695):  
12,385 psi (85.4 MPa) @ 7 days

Compressive Modulus (ASTM D-695):  
267,586 psi (1845.0 MPa)

Concrete bond strength (ASTM C-882)  
2 days 2,380 psi (16.4 MPa)  
14 days 4233 psi (29.2 MPa)

Tensile Strength (ASTM D-638): 7,168 psi (49.4 MPa)

Elongation at break (ASTM D-638): 2.3%

Water Absorption (ASTM D-570): 0.84%

### VOC

Pro-Poxy 100 has a VOC content of 0 g/L. Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

### Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
140070	Cartridge	0.11	400 ml
140048	Unit	1	3.79
140054	Unit	3	11.36
140059	Unit	15	56.78

### STORAGE

The material should be stored at 40° -95°F (5°-35°C). Shelf life of properly stored, unopened containers is 24 months.

### APPLICATION

#### Surface Preparation:

Cracks to be bonded must be clean and sound. Remove all dirt, grease, oil, and other foreign material that may prevent a good bond. The crack may be damp or dry, but free of standing water. Use clean, oil free, compressed air to blow out any remaining dust or debris prior to installation. Air, material, and surface temperature must be 40°F (5°C) and rising prior to mixing or installation.

#### Mixing:

Condition material to 65°- 85°F (18°- 29°C) before using. Premix each component separately then mix two parts by volume of Part A with one part by volume of Part B for three minutes with a low speed (< 450 rpm) drill motor using a jiffy mixer or paddle. Mix only as much material as can be used within the pot life.

#### Placement:

For pressure injection, first prepare the surfaces adjacent to the cracks to expose clean, sound concrete. The injection ports should be spaced from 8 in. (20.3 cm) to 36 in. (91.4 cm) apart depending on the crack width and the thickness of the member to be injected. Next, the crack should be sealed at the surface with Pro-Poxy 300 or Pro-Poxy 300 Fast epoxy gel. After the Pro-Poxy epoxy gel has cured, inject Pro-Poxy 100 with pressurized dispensing equipment or use cartridges from Unitex. Do not install ports at the extremities of fine cracks as they feather to disappearance, install a terminal port approximately 4 in. from the end; narrow cracks fill quicker from a wider adjacent crack segment than from a surface port. Pro-Poxy 100 cartridges are only designed for small repair projects with cracks at least 1/16 in. (1.6 mm) in width or larger. For large projects and/or crack widths less than 1/16 in. (1.6mm), use Pro-Poxy 100 in 1, 3 or 15 gal. (3.79, 11.36 or 56.78 L) units with pressurized dispensing equipment. For sealing slabs, spread the Pro-Poxy 100 over the interior slab or above grade exterior slab. Allow material to penetrate then remove any excess material to prevent the formation of a surface film

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**CLEAN UP**

Tools and Equipment: Clean before the epoxy sets up.  
Use Xylene or Unitex Citrus Cleaner.

**LIMITATIONS****FOR PROFESSIONAL USE ONLY**

Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions.

Always test a small amount to insure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation

Do not inject cracks wider than ¼ in. (6.4 mm) without contacting Dayton Superior.

At the completion of each project, it is recommended to take core samples to verify the satisfactory penetration of Pro-oxy 100 epoxy into the crack

Do not thin with any solvents

Surface, ambient and material temperatures must be 40°F (5°C) or above

Do not expose stored or uncured product to cold or freezing temperatures below 35°F (2°C) for any length of time

Note: High temperatures will accelerate the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F (24°C)

This product is certified to a maximum surface area to volume ratio of 0.8 sq. cm/L

**PRECAUTIONS****READ SDS PRIOR TO USING PRODUCT**

- Component A – Irritant
- Component B – Corrosive
- Product is a strong sensitizer
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

**MANUFACTURER**

Dayton Superior Corporation  
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Customer Service: 888-977-9600  
Technical Services: 877-266-7732  
Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

**WARRANTY**

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.