

TECHNICAL DATA SHEET

DESCRIPTION

Pro-Poxy™ 204 is a 100% solids, fast setting, two component, high modulus, medium viscosity, moisture tolerant epoxy adhesive.

USE

The primary use of Pro-Poxy 204 is for bonding fresh concrete to hardened concrete. Pro-Poxy 204 has excellent adhesion to most construction materials.

FEATURES

- High strength epoxy adhesive meeting
- Ideal for bonding fresh concrete to hardened concrete
- Medium viscosity pumpable formula
- Moisture tolerant
- Excellent adhesion to most materials

PROPERTIES

Properties: See Appendix A below for more information

Meets Specifications ASTM C881-20a for Type I,II,IV & V, Grade 2, Class B and C

Mix Ratio – 1:1, Component A to Component B by volume

Color: Component A- Clear, Component B- Dark Gray, Mixed– Dark Gray

voc

Pro-Poxy™ 204 has a VOC content of <10 g/L. Compliant with all Canadian and US VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

Apply Pro-Poxy 204 at a thickness of approximately 20 mils [80 sq. ft/gal., 1.96 sq. m/L].

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
140127	Cartridge	0.159	600 ml
140112	Unit	1	3.8
140117	Unit	2	7.6
140125	Unit	110	416

STORAGE

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

Surface Preparation:

Surface to be bonded must be clean and sound. Remove oil, dirt, grease, laitance, curing compounds and other foreign matter that may cause a problem with bond. Abrasive blast cleaning and mechanical removal methods are recommended.

Mixing

Condition material to 65°-85°F (18°-29°C) before using. Premix each component then place 1 part by volume of Component A and 1 part by volume of Component B into a clean pail and mix for three minutes with a low speed drill using a Jiffy Mixer or paddle until uniformly blended. Mix only what can be used within the posted gel time. Air, material, and surface temperatures must be 40°F (5°C) prior to mixing or installation.

Placement:

As an adhesive and for bonding fresh concrete to hardened concrete, apply Pro-Poxy 204 neat by brush, roller or spray and work into substrate. While Pro-Poxy 204 is still tacky, place the fresh concrete.

To produce a mortar for interior patching repairs, mix 1 to 4-1/2 parts by volume clean, dry, well graded silica sand to 1 part by volume of mixed Pro-Poxy 204. Mix thoroughly until all of the sand is wet and evenly dispersed. First, apply a prime coat over the area to be repaired with neat. Pro-Poxy 204. Place the mortar working it well into the surface of the concrete before the prime coat becomes tack free. Lifts should not exceed 1 in. (2.5 cm) in thickness.

CLEAN UP

Tools and Equipment: Clean before the epoxy sets up. Use J48 Citrus Cleaner.

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LIMITATIONS

FOR PROFESSIONAL USE ONLY

Minimum age of the concrete must be 21-28 days from date of placement depending on curing and drying conditions. If the Pro-Poxy 204 is no longer tacky during bonding operations, and within 16 hours after application of the bonder, clean and solvent wipe the area and re-apply the Pro-Poxy 204 epoxy. If more than 16 hours has lapsed since application, the area must be lightly sanded or abraded and solvent wiped clean prior to re-application of the Pro-Poxy 204.

Always test a small amount of Pro-Poxy 204 to ensure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation. Do not thin with any solvents.

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

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

Epoxies may yellow, discolor, or chalk upon exposure to strong sources of Ultra-Violet radiation such as from sunlight, and some types of industrial artificial lighting.

Note: High temperatures will accelerate the setting time and cool temperatures will slow 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).

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

1125 Byers Road

Miamisburg, OH 45342

Customer Service: 888-977-9600

Technical Services: 877-266-7732

Website: 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.

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Appendix A

 TABLE 1: Pro-Poxy 204 Performance to ASTM C881-20a^{1,2}

Property	Cure Time	ASTM Standard	Units	Class B 40°F-50°F (4°C-10°C)	Class C 60°F-73°F (15°C-22°C)
Gel Time – 60 Gram Mass	----	C881	Min	54	16
Viscosity			cP	27,860	4,480
Compressive Yield Strength	7 day	D695	psi (MPa)	14,000 (80.7)	15,000 (81.4)
Compressive Modulus			psi (MPa)	248,000 (1,710)	246,000 (1,696)
Tensile Strength		D638	PSI (MPa)	7,000 (48.2)	7,300 (50.3)
Tensile Elongation			%	2.8	3.0
Bond Strength Hardened to Hardened Concrete		2 day	C882	psi (MPa)	2,350 (16.2)
	14 day	psi (MPa)		3,000 (20.6)	3,250 (22.4)
Bond Strength Fresh to Hardened Concrete	14 day	psi (MPa)		2,611 (18.0)	
Heat Deflection Temperature	7 day	D648	°F (°C)	120 (49.0)	
Water Absorption	24 hr	D570	%	0.1	
Linear Coefficient of Shrinkage	----	D2566	in/in	0.003	

1. Results based on testing conducted on a representative lot(s) of product. Average results will vary according to the tolerances of the given property.
2. Results may vary due to environmental factors such as temperature, moisture, and type of substrate.