

TECHNICAL DATA SHEET

DESCRIPTION

Perma Prime 3C is a three component, epoxy-modified cementitious bonding agent and corrosion inhibitor. Perma Prime 3C is non-flammable, water based and VOC compliant.

USE

Bonding agent for new to hardened concrete. Corrosion inhibitor for reinforcing steel. Bonding agent for cementitious or epoxy repair mortars.

FEATURES

- True breathable bonding agent
- Portioned kit contents for easy mixing
- Long open time

PROPERTIES

ASTM C109/Compressive Strength
3 days 2,400 PSI [16.6 MPa]
7days 4,000 PSI [27.6 MPa]

ASTM C348/Flexural Strength
28 Days 1,295 PSI [8.9 MPa]

ASTM C496/Splitting Tensile Strength
28 Days 670 PSI [4.6 MPa]

ASTM C882/Bond Strength
Plastic to Hardened Concrete Wet on Wet 2,600 PSI [17.9 MPa] 6 hr Open Time 2,350 PSI [16.2 MPa]

ASTM C1583/DIRECT TENSILE BOND Wet on Wet 275 PSI [1.9 MPa] 3 hr Open Time 180 PSI [1.2 MPa]

ASTM E96/Water Vapor Transmission Control 22.84 PERMS (2.54E-07g/Pa.s.m²)

Pot Life: 90 min at 73° (23°C), 50% RH

Note:

The data shown is typical for controlled laboratory conditions. Reasonable variation from these results can be expected due to interlaboratory precision and bias. When testing the field mixed material, other factors such as variations in mixing, water content, temperature and curing conditions should be considered.

VOC

VOC of 0 g/L and therefore compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

Bonding Agent: 80 sq. ft./gal (1.96 sq. M/L). Minimum thickness 20 mils

Corrosion Inhibitor: Apply 2 coats @ 20 mil per coat resulting in a 40 mil total thickness.

Texture and absorption rate of the concrete will influence actual coverage rate as will steel bar size and shape.

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
139813	Unit	3.2	12.11

COLOR

Color: Dark gray

STORAGE

Shelf Life: 12 months in original unopened container
Storage Conditions: Store at 40°- 95°F (5°- 35°C) – protect from freezing

APPLICATION

Surface Preparation:

Surface must be clean and sound. Remove surface contaminants i.e. dust, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials. Concrete: Sandblast or use other approved mechanical means. Substrate must be saturated surface dry (SSD) with no standing water. Steel: Sandblast to white metal finish

Mixing:

Condition material to 65°- 75°F (18°- 24°C) before using. Pour entire contents of parts A and B into a clean mixing container. Mix thoroughly for 30 seconds with a Jiffy mixer on a low speed (400-600 rpm) drill. Slowly add the entire contents of the 4 - 9 lbs. (4.1 kg) bags of part C (aggregate) while continuing to mix for 3 minutes until blended thoroughly. Partial kit: Mix 5 oz. of Part A to 25 oz. of Part B and (1)-9lb. bag of Part C aggregate

Placement:

Corrosion Inhibitor: Apply uniformly with brush or spray, fully coating all areas of the exposed reinforcing steel at 20 mil per coat. Allow to dry and recoat at same coverage rate. Once dry, new concrete or patching material can be placed. Bonding Agent: Apply uniformly with stiff bristle brush, roller or hopper gun. Make sure substrate is thoroughly wetted with bonding agent. Place new concrete or patching material within 6 hours @ 73°F (23 °C) or 3 hours @ 95°F (35°C) for best results.

CLEAN UP

Uncured material can be removed with Citrus Cleaner J48 or other approved solvent. Cured material can only be removed mechanically.

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LIMITATIONS**FOR PROFESSIONAL USE ONLY**

Condition material to 65°- 75°F (18°- 24°C) before using. Do not allow material to freeze. Maximum application temperature 95°F (35°C). Minimum application temperature 40°F (5° C). Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions.

PRECAUTIONS**READ SDS PRIOR TO USING PRODUCT**

- Component A – Irritant
- Component B – Corrosive
- Component “C” Irritant: Contains Portland cement.
- 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

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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.