

TECHNICAL DATA SHEET



DESCRIPTION

ProCryl PC (Polymer Concrete) is a 100% reactive methyl methacrylate based polymer concrete designed for a multitude of applications that require a fast-curing, high strength material.

ProCryl PC is used for thin patches, overlays and grouting, or is filled with coarse aggregate and used for deep patches in slabs. The unique fast cure and durability make the **ProCryl PC** suitable for concrete restoration projects, including repairing and rebuilding deteriorated concrete surfaces.

BENEFITS

- ♦ Fully cures in one hour, reducing downtime for a quick return to service
- ♦ High strength is ideal for repairing and rebuilding deteriorated concrete surfaces
- ♦ Can be installed in a variety of thicknesses, offering design flexibility for numerous applications
- ♦ NSF registered for incidental food contact (R2)
- ♦ Can be applied at temperatures down to 14°F (-10°C) to meet a wide range of application and timing requirements

COMPOSITION

ProCryl PC consists of two components: a liquid methacrylate based resin; and powder component consisting of sand, inert fillers, polymers, pigments and powder initiator.

PACKAGING

ProCryl Part A: Liquid component consisting of 4.5 gallon (17 L) pail and 54 gallon (204 L) drum.

ProCryl Part B: Powder component consisting of 31 lb (14 kg) bag.

COLOR

Concrete Grey

APPLICATIONS

- ♦ Industrial flooring overlays/patches
- ♦ Repair of cracked, spalled and eroded concrete
- ♦ Rebuild joints and deteriorated concrete surfaces
- ♦ Shimming and high strength grouting

CONSIDERATIONS

Every **ProCryl** flooring system is a multiple component system that utilizes a methyl methacrylate (MMA) resin. It is critical that the instructions listed in the Safety Data Sheet (SDS) and on the product label for every component of the system be read, understood and followed. Make certain the most current versions of Product Data and Safety Data Sheets are being used. MMA resins are flammable liquids in their uncured state. Smoking, open flames or sparks should not be permitted during the handling of the product. Explosion safe ventilation must be used during the application to minimize vapor collection in the installation area and to improve overall air quality for the crew. All foodstuffs must be removed during installation of the flooring system.

Proper application is the responsibility of the user. Field visits by **ProREZ** personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

The **ProREZ PC** mortar must be applied over a primed substrate (e.g. **ProCryl Primer**). The cured **ProREZ PC** mortar must also be primed prior to coating over it with other **ProCryl** materials.

TEST DATA

PROPERTY	RESULTS	TEST METHODS
Compressive Strength (psi)	8,000	ASTM C 39
Compressive of Thermal Expansion (in/in/° F x 10 ⁻⁶)	18	ASTM C 531
Compressive Modulus of Elasticity (psi)	0.8 x 10 ⁶	ASTM C 469
Tensile Strength (psi)	1,000	ASTM D 638
Dielectric Strength (V/mil)	350	ASTM D 149
Water Absorption (%/24 hrs)	.02	ASTM D 570

POT LIFE & HARDENING TIME

20 minute pot life with 1 - 3 hours hardening time.

Note: The Initiator is already included in the bag of **ProCryl PC** powder.

FORMULATION GUIDE

ProCryl PC liquid is formulated with the filler powder as indicated below.

MATERIAL	WEIGHT	VOLUME
ProCryl PC Liquid	4 lbs	0.5 gallon
ProCryl PC Powder	31 lbs	

Yield: 35 lb Mix

Coverage: 1/8" ~30 sf
1/4" ~15 sf

Note: Coverage rates will vary depending upon thickness of overlay and porosity of substrate. **ProCryl PC** can be extended up to 1 gallon by using clean, dry pea stone for thicker overlays.

CLEAN UP

Clean tools and equipment with **ProCryl Cleaner**. Consult Safety Data Sheet for safety and health precautions.

STORAGE

Store in a cool and dry place, below 80°F, out of direct sunlight. Do not store near open flame or food. Shelf life is 6 months in the original unopened containers. After extended storage, additives and fillers can separate. Materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands). Thoroughly mix pails or drums and pour into new containers to inspect resin before use.

CAUTION

Adequate cross ventilation should be provided. Good ventilation during the application ensures cross-linking and hardening. Read, understand and follow Safety Data Sheets and Application Instructions prior to use. Use only as directed. If substrate and/or material temperature is above 90°F, DO NOT apply material.

TECHNICAL SERVICE

ProREZ is available to provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. A **ProREZ** Technical Representative is available to assist you. Telephone 877.511.3456 or www.prorezcoatings.com.

Warranties: Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.