

PrepPro Rapid Concrete (RC)

Interior/Exterior Rapid Drying Concrete Mortar for Ramping, Trench Fill, & General Concrete Repair

Division 3

03 01 00 Maintenance of
Concrete

03 54 00 Cementitious
Underlayments

Division 9

09 32 00 Mortar Bed Tiling

Suitable Substrates

(well bonded, clean, dry, sound and
stable interior/exterior substrates
including;)

Concrete
Masonry
Wood
Ceramic tile
Terrazzo
Properly prepared residue of
cutback and non water soluble
adhesive
Epoxy moisture vapor membranes
(free from amine blush)

LEED

Platform PrepPro RC
may contribute to LEED
certification of projects as follows:

Indoor Environmental Quality

EQ 4.2
Low Emitting Materials
VOC content 0g/l

Materials and Resources

MR 5.1
Regional Manufactured
Cleveland, OH

MR 5.2
Regional Materials
>50%

PrepPro Rapid Concrete (RC) is a high-performance screed mortar engineered for fast track interior and exterior applications that require rapid drying, exceptional bond and durability. PrepPro RC may be conveniently mixed in mortar mixers, extended 50% with aggregate and holds slopes well for ramping applications including resloping of exterior concrete such as balconies. PrepPro RC provides a smooth, durable surface for the installation of a variety of finishes such as vinyl, carpet, engineered wood, tile, underlayment, micro toppings, epoxy and more as quickly as 12 – 16 hours. PrepPro RC requires only the addition of water and mixes to a high slump consistency that is troweled with minimal effort to smooth imperfections in a variety of substrates. PrepPro RC uses exceptionally low water, providing a durable, low porosity concrete.

Features

- Engineered for: easy placement and significantly reduced application effort, drying and maximum durability.
- Suitable for interior/exterior installations from 3/8" – 6"
- Suitable for substrate repairs prior to application of epoxy moisture vapor remediation coatings after 12-16 hours of cure.
- Suitable as substrate for finishes such as vinyl, carpet, engineered wood, tile, epoxy, urethane, micro-toppings, overlays and more as early as 12-16 hours after placement.
- Bonds to most substrates without primer or need of additive
- Supports points on LEED® Certified projects

**For depths beyond 2" in unconfined areas extend material 50% by weight with 1/4 - 3/8" pea gravel.*

Properties (where applicable tested @ 70°F)

Placement time	20-25 minutes
Final set	60-90 minutes
Application Depth	3/8" (8mm) – 6" (15cm)
Temperature for Application (material and ambient)	50°F to 90°F (10-32°C)
Final Strength (28 days) ASTM C109M	>5,500 psi
Yield	50 lbs NEAT 0.37 cu. ft Extended 50% Approx. 0.55 cu. ft
Water ratio	50 lb bag - 1.85 - 2 Qts (1,75 - 1,9L) Water
Color	Tan Gray
Flammability	Flame Spread 0, Fuel Contribution 0, Smoke Development 0
Packaging	50 lbs (22,7 kg) Bag
SKU	641595240770
Shelf life	6 months when unopened and stored per instructions

General Guidelines

- For use in interior and exterior environments. Freeze/Thaw Stable.
- For application when substrate and ambient conditions are between 50 -90°F (10-32°C), for 72 hours prior to the installation and maintained within that range for 72 hours after installation.
- PrepPro RC has no moisture limits and may be utilized for concrete repair prior to application of an epoxy moisture remediation coating (such as Platform EMS).
NOTE: Moisture limits (RH or Moisture Vapor Emissions Rate (MVER)) are determined by the finished flooring and associated adhesive). When moisture emissions exceed the level permitted for the installation of the finished flooring utilize a suitable moisture vapor remediation coating after PrepPro RC has cured 12-16 hours.
- Not suitable for use over Luan, plastic, fiberglass, metal, particle board, sheet vinyl, or presswood, OSB, woods not APA (exterior) rated subject to movement or swelling.
- Installation must conform to applicable local, state and federal building codes.
- Not for use over gypsum subfloors. Refer to Dependable's line of patch and repair materials for Gypsum at www.floorprep.com or consult technical services if patching over gypsum is required.
- PrepPro RC does not require the addition of chemical additives.
- Not for application over standing water.
- Cool and humid conditions may extend curing time, plan workflow accordingly.
- Given exceptionally low water content, take measures to protect placements from rapid moisture loss when applying in hot, dry conditions. Always shield from direct air movement across the surface of placement.

Storage

Store in cool and dry conditions, out of direct sunlight with pallets wrapped in original shrink wrap.

Application Procedures

FOR PROFESSIONAL USE ONLY

When used in interior applications subject to floor coverings, follow the directions of the flooring and adhesive manufacturer to determine the maximum allowable moisture content (RH) or transmission of the substrate. If the moisture content (ASTM F-2170) or moisture vapor transmission rate (ASTM F-1869) of the substrate exceeds the requirements of the flooring system, utilize Platform EMS AFTER deep concrete repairs (minimum ½" in confined areas) are completed with PrepPro RC. PrepPro RC will not inhibit transmission of moisture to the finished flooring.

All Substrates must be sound, clean, dry and free of contaminants (oil, dirt, laitance etc.) that may interfere with adhesion. Do not use solvents, acids, chemical adhesive removers to prepare the substrate. All bond breaking substances (cure residues, excess salts from silicates etc.) must be removed prior to priming. Completely vacuum all dust and debris from the substrate prior to material application.

Honor all moving joints. Complete crack and substrate repairs prior to installation. Consult an engineer for required joints and crack repairs prior to installation.

Maintain a minimum of 50°F prior, during the application and for 72 hours after installation. Acclimate the material to a minimum of 50°F prior to mixing.

If uncertain of suitability or bond, test an inconspicuous area for compatibility and adequate bond prior to proceeding.

Surface Preparation

Concrete Floors

All concrete must be sound, stable, clean and free of any bond breaking materials (silicates, curing compounds, laitance, dirt). Mechanically remove weak surfaces (by shot blasting or grinding with dust removal), and any contaminants to sound concrete. **Prime prepared concrete by Saturate, Surface Dry method (SSD).**

Feather edge installations may be realized by;

1. Keying out surrounding concrete to 3/8" deep so edge of PrepPro RC is at least 3/8" thick. Suitable for use under moisture remediation coatings.
2. Carry repair to a minimum depth of 3/8" and finish from 3/8" to feather with a suitable polymer modified patch.

PrepPro RC offers exceptional volume stability, in any case good placement practice requires control joints every 10 ft. Larger placements deeper than 1.5" benefit significantly from the addition of suitable aggregate.

Wood

PrepPro RC can be utilized in some situations over wood substrate. In all cases wood must be (screwed & glued) APA rated, exterior grade wood floors free of deflection. Mechanical means (wire mesh, suitable lath) must be mechanically fastened to the wood in all bond line areas. In all such cases PrepPro RC cannot be applied to less than 3/8" in thickness. Utilize a suitable polymer modified patch to take ramps/repairs to feather edge.

Gypsum substrates

Not recommended for use over Gypsum floors. Contact Platform for a superior patch material compatible with Gypsum substrates.

Clean-up and Disposal

Wash hands and tools with water before the material hardens, or within 10 minutes of material contact to ensure easiest removal. Cured material must be removed mechanically. Dispose waste or excess material in accordance with all local, state and federal regulations. Hardened material is generally considered construction waste.

References

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

ASTM F-710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

ASTM C1708 Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements

Technical Support

Contact 1-800-227-3434

Precautions

Read and follow all precautions and warnings indicated on the product label and on the product Safety Data Sheet (SDS) available at profloorprep.com

Limited Warranty

Platform is warranted by Dependable, LLC to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Dependable, LLC will correct any such failure by either replacing or repairing any defective goods, at Dependable, LLC's option. The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The foregoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

Application Procedures

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Mixing

Water: Up to 1.85 - 2 US Qts (1,75 - 1,9L) per 50 lb bag

PrepPro RC is very sensitive to water content, do not overwater.

Given the exceptionally low water ratio, mix by mechanical mixer. Once shear is introduced, the material will loosen and slump as designed. DO NOT add additional water based on initial mix.

Mix Method: Most applications benefit from the use of a suitable mortar mixer. Prewet and drain excess water from the mortar mixer. Ensure mortar mixer is in good running condition prior to adding material. Add 2/3 - 3/4's the required water for the number of bags in mix prior to adding PrepPro RC. Add 2/3 the total mix material, followed by any aggregate extension. Aggregate must be clean and dampened (do not add dripping aggregate as additional water will impact material performance). Add the final portion of water when adding the final bags to the mix. Mix for a 2-3 minutes after final bag is added.

Correct mixing will generate a homogenous, flowable screed of rampable consistency. Overwatering and/or under mixing will result in difficult placement and lower ultimate compressive strengths.

Clean the mixer regularly as material will begin to set if left beyond 20 minutes. Mix no more material than can be placed within 20 minutes. Do not remix with additional water.

Material Application

Pour the flowable material in place (by wheelbarrow or similar) and set height or slope by screed. In many cases a screed finish will provide suitable profile for subsequent materials to mechanically bond, and/or for slip resistance of foot traffic (finish with a broom texture if desired for direct foot traffic on ramps). Once material reaches initial set, it may be finished (if desired) to a very smooth texture by trowel or float.

Dry Time Prior to Flooring Installation

PrepPro RC is self drying, wet cure/wet burlap may be used to counter rapid moisture loss in very hot and dry conditions. Depth of placement and ambient conditions (temperature and humidity) will impact the dry time of the material. Material is typically ready to accept light trade traffic after 4 - 6 hours.