



TECHNICAL DATA SHEETS

RAPID REFLOOR

Fast Set Structural Concrete Repair Product

PRODUCT

Rapid Refloor is a two-component, 100% solids structural polyurethane/polyurea hybrid. When cured, **Rapid Refloor** is a rigid structural polymer with a Shore D Hardness of 70-75. **Rapid Refloor** was developed to repair random cracks and surface spalls/pop-outs and other surface defects in industrial concrete floors that are subject to wheeled traffic. **Rapid Refloor** is designed for use in industrial or retail concrete floors where final building temperatures are 32°F (0°C) to +120°F (49°C).

RECOMMENDED PRODUCT

Rapid Refloor is a structural repair product and should not be used as a floor joint filler.

Rapid Refloor is a structural repair product with very high adhesive and tensile properties; consequently it will restrain concrete movement wherever placed and may lead to concrete tearing if substantial concrete movement occurs after placement.

Rapid Refloor is not designed for use in temperatures below 32°F (0°C).

Rapid Refloor overfill may leave a light stain/shadow on some concrete surfaces.

Rapid Refloor may exhibit a moisture reaction on damp or wet surfaces; repair area should be clean and dry.

STANDARD COLORS: Standard color is Standard Gray.

Rapid Refloor is also available in multiple **ColorFast** Colors and in custom colors by special order.

PACKAGING INFORMATION: 600ml (300x300) dual cartridges or 250 ml "universal" cartridges

MIX RATIO: 1:1

VISCOSITY: Part A – 120cps Part B- 70 cps Mixed- 100 cps

Allows for penetration into cracks as narrow as 1/64" (.016 or .40 mm).

DIE C TEAR STRENGTH: 400 psi @ ASTM D624

YIELD COMPRESSIVE STRENGTH: 4000 psi @ ASTM D-638

TENSILE STRENGTH: 5500 psi @ ASTM D-412

ULTIMATE ELONGATION: 6.0-8.0%

HARDNESS: Shore D= 70-75

CURE SCHEDULE (74°)

TACK FREE (DRY TO TOUCH) – 5-8 minutes

LIGHT FOOT TRAFFIC – 15-30 minutes

FULL CURE (HEAVY TRAFFIC) – 30-60 minutes

ADDITIONAL INFORMATION

Applicable Specifics

There are no applicable government or ATSM standards for structural polyurea/polyurethane repair products.

Use in USDA/FDA Regulated Facilities

Rapid Refloor is acceptable for use in floors subject to USDA and FDA inspection and regulation.

Use in USGBC LEED® Projects

Rapid Refloor contains no VOC's (0%) and is fully compliant with USGBC LEED® green building standards.

Technical Assistance

Complete technical support and literature are available through authorized distributors or by contacting our New Hampshire headquarters at 800-223-6680.

Availability

Rapid Refloor is available through authorized construction supply distributors or through our NH headquarters.

Installation

Rapid Refloor is designed to be mixed using a universal or dual cartridge kit with appropriate gun or by hand in very small amounts. Material should be preconditioned to 70°-80°F (21°- 27°C) prior to use for best results. **Rapid Refloor** is designed for use in concrete floors at temperatures of 32°F (0°C) or higher. If concrete temperature is lower than 32°F, temporary heat tenting, etc. must be used to warm up floor area prior to installing material.

If using dual-component cartridges:

Prepare cartridge for dispensing with static mixer and flow restrictor (if included) per kit instructions. Material should be dispensed at a moderate pace using steady pressure. Keep a waste container (disposable cup) handy to dispense **Rapid Refloor** liquid at start of application or if dispensing is delayed for more than 30 seconds (to avoid cured material in mixer tip).

Using **Rapid Refloor** and Grinding/Polishing

If using **Rapid Refloor** to repair surface defects in conjunction with grinding/polishing decorative concrete floors we recommend the following:

Install **Rapid Refloor** after initial course grind but prior to second grind. This will help ensure that any residual staining or shadowing from **Rapid Refloor** overfill is removed in second grind. If staining is a critical concern, test on an inconspicuous area to confirm that any stain is removed during subsequent grinds.

When grinding cured **Rapid Refloor**, pads with 100 grit or more aggressive should be used for best results. Using **Rapid Refloor** and Grinding/Polishing,

best results are obtained by first grinding off or knocking down any excessive overfill with a cup grinder and medium grit finishing pad (e.g. *Gator Grit* or *Norton Rapid Strip*) which will not mar the concrete surface. It is further recommended that grinding operations be delayed for 25 minutes or more after initial **Rapid Refloor** placement (at 70°F/21°C).

Defect Preparation and Repair

Repair area should be completely free of dust, debris, dirt, oils and moisture prior to application of material.

Surface Defects/Spalls

Remove all loose concrete chips, spalls, islands, etc. back to structurally sound concrete with a hammer and chisel or dry cut saw equipped with diamond blade.

Slightly overfill defect and monitor the installation for any seepage. If seepage into defect is detected, dispense additional material to restore flushness with surface. After **Rapid Refloor** cures into a hard solid (approximately 25 minutes) grind off any excess flush with surface using a cup grinder with medium grit pad or hand grinding stone.

Anchor Bolt Holes

If anchor is still intact cut off as much of the bolt as possible prior to slightly overfilling defect with **Rapid Refloor**

Random Cracks

Cracks up to 1/8" (3mm) in width should be cleaned using a soft wire wheel or brush and wiped with solvent to remove dirt or oils prior to filling with neat **Rapid Refloor**. Fill/overfill crack with neat **Rapid Refloor** and grind off any high spots after cure.

For cracks wider than 1/8" (3 mm) or cracks where continual movement is suspected an alternate recommended repair method is to rout out the crack using a diamond blade to a depth of 1/2" (12 mm) to 3/4" (18 mm) and filling the crack with a semi-rigid filler such as our **Spal-Pro RS 88** Polyurea or **MM-80** Epoxy Joint Fillers.

Safety

Rapid Refloor is for industrial use only. Use only in well ventilated areas. Practice all normal job site safety precautions (clear work area, etc.). Thoroughly review MSDS for additional information prior to use.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON

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We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT

We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option.

Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty.

No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.