1. Product Name
   Rapid Refloor XP
   Rapid-Set Structural Concrete Repair Product

2. Manufacturer
   Metzger/McGuire
   PO Box 2217 Concord, NH 03302 (USA) Phone: 603-224-6122
   Fax: 603-224-6020 • Web: www.metzgermcguire.com

3. Product Description
   Composition:
   Rapid Refloor XP is a two-component, 100% solids, structural polyurethane/polyurea hybrid. When cured, Rapid Refloor XP is a rigid structural polymer with a Shore D Hardness of 75-80.

   Basic Use:
   Rapid Refloor XP was developed to repair a wide range of surface defects in industrial or stained/polished concrete floors including surface spalls/popouts, surface pitting, bolt-holes, random cracks and more. Rapid Refloor XP is designed for use in industrial or stained/polished concrete floors where final building temperatures are 32°F (0°C) to +120°F (49°C).

4. Limitations
   • Rapid Refloor XP 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 XP is not designed for use in temperatures below 32°F (0°C).
   • Rapid Refloor XP may exhibit a moisture reaction on damp or wet surfaces; repair area should be clean and dry prior to use.
   • Rapid Refloor XP has a relatively short pot life which reduces working time when placing. Always start with small batches when mixing by hand and test various amounts to determine comfortable mix volume.

5. Advantages
   • Permanent, durable, structural concrete repair in minutes.
   • Ready for traffic in 60-120 minutes depending on application. Rapid Refloor XP’s low viscosity allows for penetration into cracks as narrow as 1/64" (.016 or .40 mm) and micropits in the floor surface.
   • Unlike many low-viscosity structural repair products, Rapid Refloor XP is virtually odorless.
   • Rapid Refloor XP is non-hazardous and can be shipped overnight by air carrier.
   • When used as a grouting product, Rapid Refloor XP can enhance floor surface continuity and gloss.
   • Rapid Refloor XP can be mixed with aggregate to extend yield and provide better blended repairs.

6. Packaging
   Rapid Refloor XP is available in 2 gallon and 10 gallon kits. Standard colors are Amber, Dovetail, Warm Stone, Porpoise and Ryno Gray. Additional popular colors are available (please see ColorFast Color Chart). Custom colors are available through special order.

7. Technical Properties
   Viscosity Profile
   Part A. .......................................................... 640 cps
   Part B. ........................................................... 40 cps
   Mixed .......................................................... 340 cps

   Reaction Profile
   (100 grams, 74°F/23°C Sample)
   Pot life .................................................. 3½-4 minutes
   Tack Free Time ............................................ 5-8 minutes
   Traffic Ready .............................................. 60-120 minutes

   Typical Physical Properties
   Shore D Hardness ........................................... 75-80
   Compressive Strength (ASTM D-695), psi .......... 4190
   Tensile Strength (ASTM D638), psi ..................... 4300
   Elongation at break (ASTM D638), % ............. 14-18
   Mix Ratio by Volume ..................................... 1:1
   Odor .......................................................... Odorless
   Shrinkage .................................................. Negligible

8. Applicable Specifications
   There are no applicable government or ASTM standards for structural polyurea/polyurethane repair products.

9. Use in Regulated Food Facilities
   Rapid Refloor XP is acceptable for use in floors subject to USDA, FDA, CFIA and AIB inspection/regulation.

10. Use in USGBC LEED® Projects
    Rapid Refloor XP contains no VOC’s (0%) and is fully compliant with USGBC LEED® green building standards.

11. Technical Assistance
    Complete technical support and literature are available by contacting our headquarters at 800-223-6680 or visiting us online at www.metzgermcguire.com

12. Installation
    Rapid Refloor XP is designed to be mixed using a low RPM drill (500 rpm) and helix style paint mixing paddle. Mixing with
12. Installation (continued)
a paint stick is possible but may require additional mixing time and
curing results may vary. Material should be preconditioned to 65°. 
75°F (18°. 24°C) prior to use for best results.

Pre-mix colored resin side (Part A) to completely re-disburse color
prior to mixing with isocyanate hardener (Part B). Thoroughly mix
both A & B for a minimum of 45 seconds until uniform in color and
no streaking is present. Rapid Refloor XP 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 adding aggregate:
Pre-mix Parts A&B as noted above prior to introducing aggregate
to the mix. Aggregate should be of engineered type (clean and
dry) preferably between 16#-30# grit. Do not use playbox/beach
sand. Add up to a maximum of two parts aggregate to one part
material depending on desired working consistency and finished
appearance.

13. Use of Rapid Refloor XP on Ground and Polished Floors
When sequencing product installation as part of a concrete grinding/
polishing process, install prior to your last metal or transitional
tooling step. Use the least aggressive tooling which successfully
removes the product and avoids opening more air holes/voids in the
floor surface. See Technical Bulletin T21 for additional information.

14. 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 XP cures into
a hard solid, grind off any excess flush with surface using a medium
grit finishing pad (if used neat) or a more aggressive grinding disc
if mixed with aggregate.

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 XP.

Random Cracks
Cracks up to 1/8” (3 mm) in width should be cleaned using a soft
Nylox-type wheel or brush prior to filling with neat Rapid Refloor XP.
Fill/overfill crack with neat Rapid Refloor XP and grind off
any high spots after cure. When filling non-moving cracks exceeding
1/8” (3 mm) in width aggregate can be added if desired.

For 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.

Surface Pitting-Use as a Grouting Product
For best results in achieving a flush repair surface profile, we
recommend pre-filling defects larger than a penny (3/4” diameter)
flush/slightly high with neat material and allowing it to cure
(approximately 30 minutes) and grind off flush prior to coating the
entire floor area with Rapid Refloor XP. Always apply product
joint to joint as surface will darken after application.

Application
Apply material generously on the floor and work into the surface
using a metal smoother, rigid edged trowel or screening device.
Monitor surface for air holes resulting from entrapped air and re-
apply as needed. In some cases, more than one coat may be required
for best results. If two coats are desired, first coat should be ground
off prior to installing a second coat. Allow 90-120 minutes for full
cure prior to grinding excess off surface. If faster access to floor area
is required Metzger/McGuire’s Rapid Refloor Pit Grout may be
a better option. Grinding excess will typically require 80-150 metal
bond diamonds.

15. Coverage Rates
Coverage rates for Rapid Refloor XP will vary substantially
depending upon application and whether aggregate is added.
To follow are some base guidelines for use in calculating material
needs. Please contact our technical services department to discuss
possible coverage rates for your specific application.

Large Surface Spalls .......................... 231 cubic inches per gallon
Bolt-Holes (3/4” diameter) ...... Approximately 300 per gallon
Grouting .................................. 400 - 800 square feet per gallon

Extended Yield When Adding Aggregate:
1 gallon RRXP to 1 gallon Aggregate: 1.6 gallons
1 gallon RRXP to 2 gallon Aggregate: 2.2 gallons

16. Safety
Rapid Refloor XP is for professional use only. Use only in well-
ventilated areas. Practice all normal jobsite safety precautions (clear
work area, etc). Thoroughly review SDS for additional information
prior to use.

17. Warranty
Metzger/McGuire Co. solely and expressly warrants that Rapid Refloor XP shall
be free from defects in material and workmanship for 365 days from the date of
purchase. Unless authorized in writing by an officer of Metzger/McGuire, no other
representations or statements made by Metzger/McGuire or its representatives, in
writing or orally, shall alter this warranty. Metzger/McGuire makes no warranties,
implied or otherwise, as to the merchantability or fitness for ordinary or particular
purposes of its products and excludes the same. If any Metzger/McGuire product
fails to conform with this warrant, Metzger/ Mcguire will replace the product at no
cost to the purchaser. Purchaser’s sole remedy in any case shall be limited to the
purchase price or replacement cost of product and specifically excludes labor and
the cost of labor, lost wages and opportunity costs, and all other possible incidental,
consequential or special damages resulting from any claim of breach of warranty,
breach of contract, negligence or any legal theory. Any warranty claim must be made
within one (1) year from the date of material purchase. Metzger/McGuire does not
authorize anyone on its behalf to make any written or oral statements which in any
way alter the installation procedures or written installation instructions published in
its product literature or on its packaging labels. Any installation of Metzger/McGuire
products which fails to conform with such installation information or instructions shall
void this warranty. Purchaser shall be solely responsible for determining the suitability
of Metzger/McGuire’s products for the purchaser’s intended purpose.