

TECHNICAL DATA SHEET

DESCRIPTION

ProMender HF is a low viscosity, pourable, “hard-and-fast” polyurethane repair or “mender” type material. Its high early strength and tenacious bonding properties are excellent for rebuilding and repairing damaged control joints, spalled concrete surfaces, as well as infilling cracks for structural repair. **ProMender HF** cures rapidly and consistently at a **1:1 mix ratio** in applications ranging from 45°F - 85°F, with a recoat-ready cure in less than 1 hour.

FEATURES & BENEFITS

- ♦ Ultra-High Solids, Zero VOCs
- ♦ Meets USDA and FDA Requirements
- ♦ Traffic Ready in ~1 Hour
- ♦ Cures from 45°F to 85°F
- ♦ Tenacious Bonding for Repairs
- ♦ Excellent Mender for Slab Cracks
- ♦ Self-Priming
- ♦ Good Chemical Resistance
- ♦ On-Site Pigmenting

TYPICAL USES

ProMender HF is a very hard, strong, and fast-setting polyurethane designed to fix spalled concrete surfaces and cracks, as well as to rebuild damaged control joints effectively and quickly. The tack free time of this material is ~ 25 minutes depending upon temperature.

- ♦ Warehouses
- ♦ Manufacturing
- ♦ Loading Docks
- ♦ Food & Beverage Processing
- ♦ Commercial Kitchens
- ♦ Hangars

APPEARANCE

Slightly amber (A&B). Light-sensitivity may cause slight discoloration over time without affecting other physical properties.

COLORS

See “Color Guide”

PHYSICAL PROPERTIES

Viscosity (Mixed)	150 cps
Hardness (Shore D) (ASTM D2240)	75D
Mix Ratio	1:1
Pot Life (100 gms @ 70°F)	4 minutes
Tack Free, Thin Film (@70°F)	10 minutes
Traffic Ready (@70°F)	45-60 minutes
Tensile Elongation (ASTM D-638)	1-1.5%
Tensile Strength (ASTM D-638)	5500 psi
Adhesion to Concrete (ASTM D-4541)	>400 psi, substrate fails

Note on Technical Data: Test data shown for physical properties are typical values obtained under laboratory conditions. Some variations could result under dynamic conditions in the field such as temperature, humidity and type or condition of substrate. Complies with LEED IEQ Credit 4.1. Once cured, this product is inert (chemically inactive) so it is safe to discard and is safe to use in areas subject to inspection for food safety.

PACKAGING

- ♦ 5 gallon white pail – Resin
- ♦ 5 gallon black pail – Hardener
- ♦ 1 gallon white pail – Resin
- ♦ 1 gallon black pail – Hardener

STORAGE

Materials should be stored indoors between 60°F (16°C) and 90°F (32°C).

SHELF LIFE

Six (6) months from date of manufacture, if unopened in original packaging.

LIMITATIONS

- ♦ This product is best suited for dry applications in temperatures between 45°F and 85°F. Some micro-foaming and gassing will occur in the presence of moisture on the surface.
- ♦ **DON'T ADD ANY SOLVENTS.**
- ♦ For newly poured concrete, **ProMender HF** should not be installed prior to **30 days** to ensure strong bonding.

- ♦ **ProMender HF** is a very rigid material with minimal elongation properties, so dynamic movement of the concrete may cause cracks to the sides of the repairs.
- ♦ Material provided in the resin and hardener pails should be thoroughly mixed for approximately 1 minute to redistribute any settlement that may have occurred during shipping or storage.
- ♦ **WHEN HAND-MIXING, MIX AND POUR ONLY WHAT CAN BE APPLIED IN 3-5 MINUTES. WORK WITH SMALL BATCHES! MORE MATERIAL MEANS MORE TEMPERATURE AND FASTER CURE!**

SURFACE PREPARATION

This product requires dustless, mechanical preparation prior to repairing horizontal concrete surfaces. Areas to be repaired should be clean, sound, and dry prior to applying the **ProMender HF** material, and completely free of any laitance, dirt, debris, coatings/sealers, or visible moisture.

Spalled areas should be mechanically “keyed” with a vertical edge of a min. of 1/2” deep surrounding the perimeter of the damaged surface. After cutting any concrete surface, the area should be vacuumed to ensure all dust is removed.

PRODUCTS GUIDE

1. **ProMender HF Resin** is a “hard-and-fast” polyurethane designed for high early strength. With its low viscosity, it can be easily applied as a repair material for joints, cracks, and spalls when combined at **1 part ProMender HF Resin to 1 part ProMender HF Hardener**.
2. **ProMender HF Hardener** cures rapidly and consistently when mixed at **1 part hardener to 1 part resin**.

MIXING

Mix equal parts by volume of the resin and hardener in a clean container for approximately 30 seconds with paint stick or mixer. The relatively thin viscosity allows for easy and efficient mixing. Colorant and aggregate can be added after mixing the resin and hardener. Adding aggregate to the mixed material acts as a “heat sink” and will slightly extend working and cure time. Keep caps or lids on containers at all times when not mixing to protect this material from humid conditions.

FINISHING

Allow **ProMender HF** to set ~30-60 minutes or until hard. Grind smooth. Scraping or cutting may also be done with a sharp razor blade cutter provided the material has not cured to completely hard – typically, less than 30 minutes.

CLEAN-UP

Spills of unmixed components should be cleaned up quickly with solvents such as Xylene, Acetone, etc. Cured material may be stripped or peeled from tools and containers.

DISPOSAL

Dispose in accordance with federal, state and local regulations.

TECHNICAL SUPPORT

For any application questions, please call **ProREZ Coatings** technical support at **877.511.3456**.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. **KEEP OUT OF THE REACH OF CHILDREN.**

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.