

1. PRODUCT NAME

ProSpec® Metro Mix 240

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
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3. PRODUCT DESCRIPTION

ProSpec® Metro Mix 240 is a super plasticized, high performance, ready mix concrete.

Features and Benefits

- Engineered to meet commercial/industrial ready mix specifications
- Replaces ready mix truck where access is restricted
- Super plasticized for higher slump and compressive strengths
- Ideal for projects requiring small structural concrete applications
- Full depth repairs 2" (51 mm) or greater
- Contains corrosion inhibitor
- High strength
- Pumpable
- Exceeds ASTM C 387

Uses

Structural applications and full depth repairs:

- Highways
- Structural piers
- Bridge decks
- Balconies
- Parking garages
- Slabs
- Industrial floors
- Foundations

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website prospec.com or contact Medical Emergency Phone Number (24 Hours): 1-888-853-1758, Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300 or contact ProSpec® Technical Services at 800-832-9023 (7:00AM to 5:00PM M-F, Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Compressive Strength ASTM C 39		
	1 day	> 2,000 psi (14 MPa)
	7 days	> 5,000 psi (34 MPa)
	28 days	> 6,000 psi (41 MPa)

Length Change (28 d) ASTM C 157		
	Dry	-0.056%
	Wet	+0.004%

Test Description	Test Method	Test Value
Slump	C143	4" - 6"
Flexural Strength (28d)	C78	845 psi (5.8 MPa)
Slant Shear Bond Strength (28d)	C882	2540 psi (16.8 MPa)
Modulus of Elasticity (28d)	C469	3.52 x 10 ⁺⁶ psi
Splitting Tensile Strength (28d)	C496	730 psi (5.0 MPa)
Resistance to Chloride Penetrability (28d)	C1202	5,863 coulombs
Absorption (28d)	C497	4.4%
Coefficient of Thermal Expansion (28d)	TEX-428-A	6.43x10 ⁺⁶ in./in./°F
Freeze-Thaw Resistance RDM @ 300 cycles	C666 A	94%

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Note: Test results obtained under controlled laboratory conditions. Tested using 3.9 qt. (3.6L) water per 80 lb. (36.3kg.) powder. Reasonable variations can be expected due to atmospheric and jobsite conditions.

LEED® Eligibility¹

- Regional Materials (MR-c5)
- Recycled Materials (MR-c4)

Packaging

Gray: 80 lb (36.3 kg) bag - Product #7165354858

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

5. INSTALLATION

Preparation

All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation.

1. Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
2. Slick or sealed surfaces must be thoroughly roughened to an ICRI CSP of 3 to 5.
3. Sides must be squared off.
4. Clean all reinforcing steel to bare white metal and coat with a rust preventative coating if not covering within 8 hours.
5. Surface should be brought to a saturated surface dry (SSD) condition with clean potable water.

Refer to:

- ACI 302 Guide for Concrete Flooring and Slab Construction
- ACI 304 Guide for Measuring, Mixing, Transporting and Placing Concrete

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Forming

Forms must be sealed to prevent material from escaping. Release agents are recommended for pre-treating wood form surfaces that can absorb moisture. The design of the form work should take into consideration the consistency of the mix, the method of placement and the distance the material must travel. Form sides must be squared off.

Note: It is the responsibility of the installer/applicator to ensure that test areas are performed to determine the suitability of the product for its intended use.

Mixing

1. Mix only the amount of material that can be placed in 30 minutes.
2. The use of a mechanical mixer is recommended.
3. Add up to 4 qt (3.7 L) of cool, clean potable water per 80 lb (36.3 kg) bag.
4. Mix for 3 - 5 minutes to a lump free consistency.
5. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.
6. Do not retemper, exceed water limits or add any materials other than clean potable water.
7. Clean mixer often to prevent buildup of material.

Application

Apply when air or substrate temperature is between 40°F (4°C) and 100°F (38°C).

1. Do not apply over concrete cured less than 28 days or that is frozen or contains frost.
2. Do not bridge over existing expansion or control joints.
3. Immediately place the blended material into the properly prepared area.
4. Maintain a minimum thickness of 2" (51 mm). For repairs less than 2" (51 mm) use ProSpec® Premium Patch 100 or Premium Patch 200.
5. Compact to eliminate voids.
6. Forms may be removed after 8 hours.
7. Protect from freezing for a minimum of 24 hours.

Finishing & Curing

Standard concrete finishing and curing practices should be followed as described in ACI Manual of Concrete Practice.

Limitations

- Do not add aggregate.
- Do not use for repairs less than 2" (51 mm).
- Do not mix more material than can be placed in 30 minutes.
- Do not exceed 4 qt (3.7 L) of water per 80 lb (36.6 kg) powder.

Coverage

80 lb (36.3 kg) bag yields 0.61 cu ft (0.02 m³)

145 lb (65.8 kg) = 1 cu ft (2322 kg of material yields 1 m³)

6. AVAILABILITY

To locate ProSpec® products in your area, please contact:

Phone: 800-832-9002

Website: prospec.com

7. WARRANTY

For warranty details, see your sales associate or prospec.com

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the Technical Support Hotline.

Toll Free: 800-832-9023

Fax: 630-952-1235

Technical and safety literature

To acquire technical and safety literature, please visit our website at prospec.com

10. FILING SYSTEM

Division 3

¹ ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

