



Form Flo P-51™

High flow concrete mix with corrosion inhibitor—DOT approved

Repair Thickness

1" to 24"

Set Time

30 minutes

Application Technique

Pour, Pump

Where to Use

- Form and pour applications
- Concrete repairs minimum 1" thick
- Partial or full repairs
- Interior or exterior
- Horizontal, vertical, overhead
- High rise buildings
- Balconies, parking garages
- Bridges, tunnels, marine structures

Features

- High performance—Technical grade
- High flow—Long pouring time
- Shrinkage compensated
- Portland cement based
- Includes 3/8" rock
- One component—Just add water
- DOT approved

Packaging and Yield

65 lb heavy duty polyethylene bag

0.55 cu ft

Product Description

FormFlo P-51 is a 1 component, high flow concrete mix. **FormFlo P-51** is mixed with water and applied from 1" to 24" thick. Product includes 3/8" aggregate and flow agents.

FormFlo P-51 is a special blend of cement, aggregate and exclusive modifiers. Designed for general purpose and high performance concrete repair and restoration applications.

For Best Results

Apply to a clean, dry, sound substrate. Substrate and ambient temperature should be above 40° F. Substrate is to be saturated surface dry (SSD) but otherwise hold no standing water prior to application. Check moisture content (mat test) prior to applying any waterproof topping. Do not retemper already mixed material. Do not expose to rain or flowing water during application.

Surface Preparation

Surface preparation is critical to achieve long lasting results. Existing concrete substrate shall be clean, sound, and free of oil, grease, laitance, curing compounds, or any other foreign matter. Remove any remaining foreign substances and unsound concrete using mechanical methods such as sandblasting or shotblasting. Saw cut patches at least 1/2" deep and provide a square shoulder. Undercut any exposed rebar 3/4" to provide adequate space for material to encapsulate the reinforcement and remove any rust present on reinforcement. Apply **JE Tomes B-1 Rebar Coating** or other approved coating to exposed reinforcement when specified. When applicable, prior to applying **FormFlo P-51**, concrete substrates should be saturated with clean water. Just before applying product, remove any standing water and allow surface to dry. This will leave the substrate saturated surface dry (SSD). A dry substrate may pull moisture from the mixed product during placement and cause cracking or poor bond.

Mixing Guidelines

Force mixing is recommended with a slow speed drill with a paddle mixer or appropriately sized mortar mixer. Barrel mixers are not recommended. Approximately 3-3.5 qt of water are required to mix 65 lb of product. When using a hand drill, add dry product slowly while mixing or introduce product in increments and mix in between to reduce lumping and ensure consistency. Mix for 1 minute, varying depth of paddle in mixing container. Do not exceed 3.5 qt of water. Allow to sit 30 seconds, thus allowing additives to take effect, then continue mixing for an additional 1 minute.



For concrete repair and restoration



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Form Flo P-51™

Application

Pour into form or apply horizontally at a minimum thickness of 1" within 30 minutes.

Curing

Rapid drying of cement-based products may cause cracking or de-bonding. Avoid applications in high winds, excessive

heat or blowing air directly on freshly placed product. Curing compounds, wet burlap, or polyethylene will reduce rapid drying but may cause color change or mar product surface. If a form is used, allow material to cure in the form for 2 or more days before removing the forms. Allow one day for light traffic on horizontal repairs. Contact JE Tomes if you have any questions or concerns with your application.

Technical Data

| | | |
|----------------------------------|-------------------------|-----------|
| Compressive strength, 28 day | Exceeds 6000 psi | ASTM C42 |
| Compressive strength, 7 day | Exceeds 4500 psi | ASTM C42 |
| Drying shrinkage | -0.023% | ASTM 596 |
| Coefficient of thermal expansion | 5.25 x 10 ⁻⁶ | ASTM 531 |
| Freeze/thaw durability | Excellent | ASTM C666 |
| Static modulus of elasticity | 3.39 x 10 ⁶ | ASTM 469 |
| Bond strength | Exceeds 150 psi | ACI 503 R |
| Air content | 6% | |
| Color | Concrete gray | |

Reasonable variations for the above data can be expected depending on field conditions, surface preparation, curing, contractor expertise and evaluation and/or handling of test cylinders. Contact JE Tomes for additional details.

LIMITED WARRANTY

JE Tomes & Associates, Inc. warrants its products to be free from manufacturing defects and will deliver, at no charge, an equal amount of packaged product as that amount proven to be defective when applied in accordance with manufacturer's written directions by contractors experienced in this application, and used in applications recommended by the manufacturer as suitable for the product. All claims concerning product defects must be made within twelve (12) months of use of the product. THERE ARE NO OTHER WARRANTIES BY JE TOMES & ASSOCIATES, INC. OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH PRODUCTS WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. Buyer's sole and exclusive remedy for breach of any warranty shall be replacement of defective product. JE Tomes & Associates, Inc. shall not be liable for any damages, including consequential damages, except as otherwise set forth therein.