

**FormFlo P-38 - *Turbo***

**Fast-curing, high-flow concrete mix with extended working time**

0.50 cu ft

**Packaging and Yield**

60 lb. heavy duty polyethylene bag

**Features**

* High flow—long pouring time
* High Early Strength – Fast Cure
* Coat in as little as 16 hours

 (Mat Test Recommended)

* One component—Just add water
* Polymer-modified
* Air-entrained
* Corrosion-inhibitor included
* Shrinkage-compensated
* Includes 3/8" gravel

**Where to Use**

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

**Application Technique**

Form and Pour or Pump

**Set Time**

45 minutes

**Repair Thickness**

1” to 24"

# Product Description

**FormFlo P-38 – *Turbo*** is a 1-component, polymer-modified, high-flow, concrete mix with high-early strength and extended working time. **P-38 – *Turbo*** is mixed with water and applied from 1" to 24" thick. Product includes 3/8" aggregate, polymer, shrinkage-compensation, corrosion protection, flow agents and other modifiers. Designed for general purpose and high-performance concrete repair and restoration applications.

## For Best Results

Apply to a clean, dry, sound concrete substrate with ambient and substrate temperature above 40° F. Substrate is to be saturated surface dry (SSD), if applicable, but otherwise hold no standing water prior to application. Do not re-temper already mixed material. Do not expose to rain or flowing water during application. Material should be 70 degrees + 5 degrees prior to mixing. After application, check moisture content (mat test) prior to applying any waterproof topping.

## 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" deep and provide a square shoulder. Undercut any exposed rebar 1" to provide adequate space for material to encapsulate the reinforcement and remove any rust present on reinforcement. Apply **JE Tomes B-1 Rebar Coating** to exposed reinforcement. When applicable, prior to applying **FormFlo P-38 – *Turbo***, 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 quarts of water is required to mix 60 lbs. of product. When using a hand drill, add dry product slowly into water 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. Allow to sit 30 seconds, thus allowing additives to take effect. Continue mixing for an additional 1 minute until homogeneous, adding water as needed to reach desired consistency. Do not exceed 3.25 quarts of water. Consistency should be very flowable to fluid without signs of aggregate segregation.



**FormFlo P-38 - *Turbo***

**Application**

Pour into form or apply horizontally at a minimum thickness of 1" within 30 minutes. Do not re-temper.

**Curing**

For exposed applications, wet-cure material for at least 2 hours. Rapid drying of cement-based products may cause cracking or de-bonding. Avoid applications in high winds and 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 form is used, allow material to cure in form for at least 4 hours @ 70 degrees or longer in cooler weather before removing forms. Allow 4-6 hours for light traffic on horizontal repairs. Contact JE Tomes if you have any questions or concerns with your application.

# Technical Data

|  |  |  |
| --- | --- | --- |
| **Compressive strength, 4 hours** | Exceeds 4000 psi | ASTM C39 |
| **Compressive strength, 24 hours**  | Exceeds 5600 psi | ASTM C39 |
| **Compressive strength 7 day** | 6000 psi | ASTM C39 |
| **Compressive strength 28 day**  | 6030 psi – Excellent | ASTM C39 |
| **Air Content for freeze / thaw durability** | 6 % | ASTM C231 |
| **Drying shrinkage, 28 day** | -0.04% - Excellent | ASTM C157 |
| **Slump** | Very Flowable | ASTM 143 |
| **Freeze/ Thaw Resistance** | Mass loss -0.03% Durability Factor = 100-Excellent | ASTM C666 |
| **Color** |  | Light Beige / 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 CONNECTIONWITH PRODUCTSWHICH EXTEND BEYONDTHE DESCRIPTION ONTHE 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.