



EXTEND-PRO

Description

FORTA's EXTEND-PRO gives concrete contractors the ability to gain crucial working time when finishing concrete; particularly in hotter, drier environments or in drier mix situations. This modified colloidal silica product was developed to give more workable time on wet concrete during the floating and troweling stages. EXTEND-PRO enhances the concrete surface strength once fully cured. The silica reacts during the hydration of the concrete to produce more cementitious material (C-S-H - calcium-silicate-hydrate) giving higher surface performance once cured.

Applications

All concrete surfaces where additional finishing time would be desired during floating and troweling. Easy to apply water-based formula can be applied by standard pump or powered spray equipment, then worked in by hand or mechanical means.

- New concrete
- Polished concrete
- Decorative concrete
- Institutional facilities
- Concrete that will receive a covering
- Retail showrooms
- Industrial floor slabs

Performance Benefits

- Gives additional finishing time on wet concrete without hurting the end cured concrete
- Provides performance concrete characteristics when applied early - during the first bull float or mechanical trowel stage - and worked thoroughly into the surface matrix of the concrete
- Water-based with zero VOCs
- Easy to clean up, use only water
- Improve durability by increasing the surface density of the end cured concrete
- Increases surface abrasion resistance and decreases permeability of concrete
- Will not change or effect color or end cure color
- Reduces calcium hydroxide migration
- Reduces potential for alkali silica reaction
- Reduces potential for slab curling

Packaging

FORTA's EXTEND-PRO is available in:

- 1 gal (4.55 L) jugs
- 55 gal (208.2 L) drums
- 5 gal (18.9 L) pails
- 275 gal (1,041 L) totes

Coverage

Application Need	Coverage Rate
Finishing Aid	500-1000 ft ² /gal (12.3-24.5 m ² /L)
Performance Concrete*	250-500 ft ² /gal (6.1-12.3 m ² /L)

* To give the best performance concrete characteristics, apply during the first bull float or mechanical trowel stage and work thoroughly into the surface matrix.

Physical Properties

VOC (g/L)	Zero
Color	Milky-White
Odor	None

Testing

ASTM C672 ¹	78% improvement over control @ 25 cycles 85% improvement over control @ 50 cycles
ASTM C779 ²	49% improvement over control @ 30 min 41% improvement over control @ 60 min
AASHTO T259/T260 ³	35% improvement over control @ 1 day soak 18% improvement over control @ 5 day soak

1. Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals. Application rate 500 ft²/gal.
2. Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces. Application rate 500 ft²/gal. Procedure B.
3. Standard Method of Test for Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials. Application rate 500 ft²/gal. Results at depth of up to 0.50 in.

Precautions/Limitations

- For professional use only.
- Review product Safety Data Sheet (SDS) before use.
- Store in a dry location between 40 - 90°F (4 - 32°C).
- EXTEND-PRO must be worked into the surface of the concrete immediately after application. Do not allow it to dry before being worked in. Do not allow it to puddle or pond on the surface.
- EXTEND-PRO aids in curing by reducing the emission of moisture vapor from the concrete; but EXTEND-PRO is not a membrane-forming curing compound and can not be used in place of any specified curing compound.
- EXTEND-PRO does reduce the surface porosity of the concrete but is not a sealer. It will not seal the concrete or prevent staining.

Application Guidelines

Conditions for Application: For best results, apply when ambient temperature is between 50 - 90°F (10 - 32°C).

Equipment: EXTEND-PRO was designed for application via spray. Sprayer can be a low-pressure pump or automatic sprayer. For even spraying, use a 0.5 gpm fan tip or a cone tip. Ensure that spraying equipment is in good working order before starting project. If using a ride-on trowel, EXTEND-PRO can be applied via the trowel's water tanks.

Mixing: EXTEND-PRO is ready to use and requires no dilution or thinning. Agitate before use.

Application: Determine the desired usage and application rate; either as a finishing aid or for performance concrete:

- **As a finishing aid**, apply at an average rate of 500 to 1000 ft²/gal (12.3-24.5 m²/L) per application and work into the concrete by floating or finishing either by hand or mechanical trowels. Spray evenly and avoid puddling of material. EXTEND-PRO can be applied multiple times during the finishing process as determined or needed by the finisher to improve workability. Be sure that each application is thoroughly worked into the surface before additional application.
- **For performance concrete**, apply early - at the first bull float or mechanical trowel stage - at an average rate of 250 to 500 ft²/gal (6.1-12.3 m²/L). Work thoroughly into the surface matrix of the concrete.

Do not exceed a rate of 200 ft²/gal (4.9 m²/L) in a single application. Contact FORTA Corporation sales and technical services for any questions regarding the application of this product.

Cleaning: Tools and equipment may be cleaned with water.

Shelf Life

One (1) year in unopened containers stored at 40 - 90°F (4 - 32°C).

Limited Warranty

FORTA® Products are warranted to be free of defects in material and will meet all published physical properties as set forth herein if used as directed within shelf life. EXCEPT FOR THE EXPRESS LIMITED WARRANTY SET FORTH HEREIN, NEITHER FORTA NOR ANY PERSON ON FORTA'S BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, OR NON-INFRINGEMENT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. User determines suitability of product for intended use and assumes all risks.

The exclusive remedy for defective product is limited to the purchase price or replacement of product exclusive of labor or cost of labor. CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

FORTA reserves the right to change the features and specifications of its products without prior notice.

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