

# SILPRO

## FASTCRETE DOT FA™

**Fast-Setting**  
**Low Permeability**  
**Corrosion Resistant**  
**High Strength**  
**Freeze/Thaw Resistant**  
**Recycled Content/Contains Fly Ash**

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**FASTCRETE DOT FA™** is a fast-setting, low permeability hydraulic cement that contains fly ash and silica fume. It can be readily mixed with field sand, stone, and water to produce concrete specifically for DOT use in repairing bridge decks, highway overlays, parking garage structures, industrial concrete slabs, marine structures, and concrete roads. **FASTCRETE DOT FA™** concrete has low chloride permeability, high freeze/thaw resistance and very high early strength which is designed to facilitate the opening of roadways, bridges, parking garages, and other concrete repairs to traffic in an extremely short time frame. **FASTCRETE DOT FA™** meets ASTM C1600 Table 1 standard physical requirement for MRH and GRH cement.

### ADVANTAGES

- Very fast-setting/High early strength
- Full-depth repairs
- Low permeability
- Excellent freeze thaw resistance
- No added chlorides
- Shrinkage compensated
- Open to vehicle in as little as 1-3 hours (at 70°F)

### RECOMMENDED DOT MIX DESIGN AND PERFORMANCE

<b>FASTCRETE DOT FA™ cement</b>	658 lbs.	
Washed sand	1561 lbs.	
3/8" aggregate	1472 lbs.	
Water/cement ratio	0.41	
<b>Slump ASTM C143:</b>	7-9 Inches	
<b>Set Time at 70°F (21°C):</b>	Initial	56 min.
ASTM C191 Mod.	Final	62 min.
<b>Fresh Air Content ASTM C231:</b>	4.0-7%	
<b>Compressive Strength:</b>	4 hr	5000 psi
ASTM C39	24 hr	6000 psi
	7 day	6400 psi
	28 day	7500 psi
<b>Surface Resistivity: AASHTO T358</b>	28 day	22 Kohm*cm
<b>Slant Shear Bond Strength</b>	1 day	2880 psi
ASTM C882	7 day	3100 psi
<b>Flexural Strength</b>	4 hr	760 psi
AASHTO T22	1 day	900 psi
	7 day	720 psi
<b>Length Change : AASHTO T160</b>		
Wet Expansion	7 day	0.005%
Drying Shrinkage	7 day	-0.01%
	28 day	-0.027%
<b>Restrained Shrinkage Cracking Resistance: ASTM C1581</b>	28day	No Cracking
<b>Freeze/Thaw resistance</b>	300 cycles	RDM 96%
ASTM C666 - Procedure A	300 cycles	weight change 1.6%

### SURFACE PREPARATION

The concrete surfaces must be completely cured, clean and free of any loose or friable material and structurally sound. All bond inhibiting materials such as paint, oil, curing compounds, waxes, sealers, gypsum, or any other material that may inhibit bonding shall be removed by mechanical means. Saturate the surface with water to a saturated surface dry condition immediately prior to the placement of **FASTCRETE DOT FA™**.

### APPLY A TEST PATCH

Install a test patch at the maximum designed thickness anticipated on the project and subject it to anticipated service conditions before beginning the entire job.

### MIXING

Mix 658 lbs. **FASTCRETE DOT FA™** with 1561 lbs. of washed concrete sand (ASTM C33) and 1472 lbs. of 3/8 inch stone. The mixing water to cement ratio is 0.41. Mix all the components in a continuous volumetric mixer or similar. Do not mix more material than can be used in 15-20 minutes. Slight adjustment of liquid content to optimize application is acceptable; however, caution is advised because over-watering will compromise concrete performance.

### APPLICATION

Place and screed quickly. **FASTCRETE DOT FA™** may then be troweled or floated. It may be broom finished, tined or float finished once it has stiffened to the desired consistency.

**Clean up:** Clean equipment and tools with water during and immediately after use.

### CURING

Moist cure applications immediately after finishing by misting with water or covering in wet burlap and polyethylene. A curing compound that meets ASTM C-309 is also acceptable.

### LIMITATIONS

- Temperatures higher than 90°F (32°C), consult with Silpro's Technical Service Department
- All control and expansion joints must be carried through.
- Coating times depend on conditions and depth.

For Customer Service, Call Silpro at 1-800-343-1501

## PACKAGING

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2000lb supersack

## STORAGE

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Store in a cool dry place. Temperature should range between 50°F – 80°F. Keep out of direct sunlight. Precondition to 70°F +/- 5° prior to using.

## SHELF LIFE

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1 year

## CAUTION!

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SILPRO offers products that may contain cement, latex, epoxy, and other chemicals. Please review the Safety Data Sheet before the use of this product.

## GUARANTEE

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Please visit [www.SILPRO.com](http://www.SILPRO.com) for a copy of the limited warranty.



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