

# SILPRO

## FASTCRETE DOT™

**Fast-Setting**  
**Shrinkage Compensated**  
**Corrosion Resistant**  
**High Strength**  
**Freeze/Thaw Resistant**

SILPRO, LLC / 2 NEW ENGLAND WAY / AYER, MA 01432-1514 / 800-343-1501 / 978-772-4444 / FAX 978-772-7456 / WWW.SILPRO.COM

**FASTCRETE DOT™** is a fast-setting, full-depth repair hydraulic cement for commercial and industrial use. 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™** concrete has 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.

### ADVANTAGES

- Very fast-setting/High early strength
- Full-depth repairs
- Excellent freeze/thaw resistance
- No added chlorides
- Shrinkage compensated
- Open to vehicle in as little as 2-4 hours (at 70°F)

### RECOMMENDED DOT MIX DESIGN

<b>FASTCRETE DOT™</b> cement	2000 lbs.
Washed sand	4000 lbs.
3/8" aggregate	4000 lbs.
Water/cement ratio	0.38 up to 0.42

### TEST DATA

<b>Slump</b> ASTM C143	6.25-9 Inches	
<b>Set Time at 70°F (21°C):</b> ASTM C191 Mod.	Initial: 45 min. Final: 60 min.	
<b>Fresh Air Content</b> ASTM C231	3.5-6%	
<b>Compressive Strength:</b> ASTM C39	4 hours	5680 psi
	24 hours	9040 psi
	7 days	10190 psi
	28 days	10960 psi
<b>Slant Shear Bond Strength</b> ASTM C882	1 day	2934 psi
	28 days	3368 psi
<b>Flexural Strength</b> ASTM C78	4 hours	795 psi
	24 hours	890 psi
	28 days	945 psi
<b>Length Change AASHTO T160</b>		
Wet Expansion	7 days	0.005%
Drying Shrinkage	7 days	-0.01%
	28 days	-0.027%
<b>Restrained Shrinkage Cracking Resistance</b>		
ASTM C1581	28 days	No Cracking
<b>Freeze/Thaw resistance ASTM C666 / AASHTO T161</b>		
300 cycles	Durability factor 92.4%	

### 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™**.

### 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 2000 lbs. **FASTCRETE DOT™** with 4000 lbs. of washed concrete sand (ASTM C33) and 4000 lbs. of 3/8 inch stone. The mixing water to cement ratio is 0.38 up to 0.42. 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. (Contact Silpro if less or more water is desired).

### APPLICATION

Place and screed quickly. **FASTCRETE DOT™** 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**

---

2000lb supersack

#### **STORAGE**

---

Store in a cool dry place. Temperature should range between 50°F – 80°F. Keep out of direct sunlight.

#### **SHELF LIFE**

---

1 year

#### **CAUTION!**

---

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**

---

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



11/25