

SILPRO

FASTCRETE DOT™

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

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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

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

TEST DATA

Slump ASTM C143	7-9 Inches	
Set Time at 70°F (21°C): ASTM C191 Mod.	Initial: 45 min. Final: 60 min.	
Fresh Air Content ASTM C231	4.0-7%	
Compressive Strength: ASTM C39	4 hours	3000 psi
	24 hours	5000 psi
	7 days	6000 psi
	28 days	6500 psi
Slant Shear Bond Strength ASTM C882	1 day	2880 psi
	7 days	3100 psi
Flexural Strength AASHTO T22	1 day	650 psi
	7 days	720 psi
Length Change AASHTO T160		
Wet Expansion	7 days	0.005%
Drying Shrinkage	7 days	-0.01%
	28 days	-0.027%
Restrained Shrinkage Cracking Resistance		
ASTM C1581	28 days	No Cracking
Freeze/Thaw resistance ASTM C666 - Procedure A		
300 cycles	RDM 96%	
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™**.

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 for a copy of the limited warranty.



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