

Illinois Department of Transportation
Bureau of Materials
QUALIFIED PRODUCT LIST OF CONCRETE SEALERS
November 17, 2023

BDE Special Provision, effective November 17, 2023

WATER-BASED CONCRETE SEALERS - Material Code 42725

SOURCE	PRODUCT	SURFACE CONDITION AT APPLICATION	* MAXIMUM APPLICATION RATE, m ² / L (ft ² / gal.)	APPLICATION TEMPERATURE RANGE (°F)	CONCRETE AGE BEFORE SEALER APPLICATION
Advanced Chemical Technologies	Sil-Act Multigard (P)(1) ▼	dry, clean, and no membrane curing compound	1 Application: 2.45 (100)	40-110	4 days minimum
▼ Product Specific Note: Quart container application is prohibited; backpack container application is required. The mixing ratio requirement for backpack container application is 6:1 (water: concentrate).					
ChemTec International	ChemTec One (P)(4)	dry, clean, and no membrane curing compound	2 Applications: 2.45 (100) each	38-95	15 days minimum
ChemMasters	Powerseal 40 (P)(1)	Cleaned free of dust, dirt, surface materials, previous coatings, and contaminants	1 Application: 9.30 (380)	40-85	14 days
Evonik Corporation	Protectosil AQUA-TRETE 40 (P)(1)	Clean of dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, curing compounds, paint, and coatings	1 Application: 4.90 (200)	40-110	28 days
MAPEI	Planiseal WR 40 (P)(1)	Structurally sound, free of dust, efflorescence, oil, dirt, curing compound, form release, other contaminants	1 Application: 4.90 (200)	Above 40	28 days minimum
SpecChem, LLC	SpecShield WB (P)(1/2)	free of curing compound, dust, debris, oil, any other contaminant	1 Application: 3.68 (150)	40-100	28 days minimum
TK Products	TK-290 WB (P)(2)	dry, clean, structurally sound, and free of grease, oil, and other contaminants	1 Application: 4.90 (200)	40 and above	28 days

*Required for compliance with the Standard Specifications for Road and Bridge Construction, Section 1026 (Adopted 04/01/2016)

**Apply to non-traffic surfaces only.

(P) = Penetrating (F) = Film Forming

(1) = Silane (2) = Siloxane (3)** = Epoxy (4) = Silica (5) = Oxo Aluminum Stearate (6) = Isopropanol (7) = Sodium Silicate

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SOLVENT-BASED CONCRETE SEALERS - Material Code 42725

SOURCE	PRODUCT	SURFACE CONDITION AT APPLICATION	* MAXIMUM APPLICATION RATE, m ² / L (ft ² / gal.)	APPLICATION TEMPERATURE RANGE (°F)	CONCRETE AGE BEFORE SEALER APPLICATION
Advanced Chemical Technologies	Sil-Act ATS-100LV (P)(1)	dry, clean, and no membrane curing compound	1 Application: 9.80 (400)	40-110	28 days minimum
Advanced Chemical Technologies	Sil-Act ATS-100 (P)(1)	dry, clean, and free of dirt, dust, oil, grease, curing compounds, coatings, and contaminants	1 Application: 6.13 (250)	40-110	28 days minimum
Advanced Chemical Technologies	Sil-Act ATS-190LV (P)(1)	Remove dirt, dust, oil, grease, curing compounds, coatings and other surface contaminants.	1 Application: 9.80 (400)	40-110	14 days minimum
Advanced Chemical Technologies	Sil-Act ATS-190FD (P)(1)	Clean, dry, free of dirt, oil, grease, curing compounds, coatings, and contaminants.	1 Application: 9.80 (400)	20-110	28 days
ChemMasters	Aquanil Plus 40-A (P)(1)	Clean and free from dirt, dust, laitance, oil, grease, paints, curing or sealing compounds, tilt-up bond breakers, or other contaminants	1 Application: 3.68 (150)	40-100	14 days
ChemMasters	Aquanil Plus 100 (P)(1)	Clean, free from dirt, dust, laitance, oil, grease, paints, curing or sealing compounds, tilt-up bond breakers, or other contaminants	1 Application: 9.80 (400)	40-100	28 days minimum
ChemMasters	Certi-Vex Penseal 244 40% AIM (P)(1)	free of dust, dirt, surface materials, previous coatings & contaminants	1 Application: 7.35 (300)	32-90	14 days

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ChemMasters	Certi-Vex Penseal 244 100% (P)(1)	free of dust, dirt, surface materials, previous coatings & contaminants	1 Application: 9.80 (400)	32-90	14 days
Evonik	Protectosil 800 (P) (1)	Air-dry and clean (high-pressure water cleaning or steam cleaning is recommended)	1 Application: 9.80 (400)	41-104	28 days
MAPEI	Planiseal WR 100 (P)(1)	dry, free of dust, efflorescence, oil, dirt, curing compounds, form release or other contaminants	1 Application: 4.90 (200)	40-95	28 days minimum
W.R. Meadows	Pentreat 244-100 (P)(1)	clean, free from dirt, efflorescence, and stains	1 Application: 9.80 (400)	Surface temperature 5.5° above the dew point	28 days
Specco Industries, Inc.	Water Stopper S-20 Siloxane (P)(2)	dry, clean, and free of all contaminates	1 Application: 5.50 (225)	32 and above	28 days
TK Products	TK-290 BDS OTC (P)(2)	clean, dry, and structurally sound	1 Application: 4.90 (200)	40 or above	28 days
TK Products	TK-590-100 (P)(1)	Structurally sound and free of dirt, grease, oil form oils, and other contaminants	1 Application: 9.80 (400)	Air and surface temperature above 35	14-28 days

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PLURAL-COMPONENT CONCRETE SEALERS - Material Code 42726

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Advanced Chemical Technologies	Sil-Act EP-700D (F)(3)**	dry, clean, and no membrane curing compound	1 Application: 1.96 (80)	40 and above	21-28 days minimum
TK Products	TK-2110 Bridge Deck & Crack Sealer (F)(3)**	free from any foreign material	1 Application: 4.90 (200)	above 50	28 days minimum

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CAUTION!! Please read manufacturer's Safety Data Sheet (SDS) prior to using any concrete sealer. !!CAUTION

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CONCRETE SEALER COMPANY CONTACT INFORMATION

Advanced Chemical Technologies

9608 North Robinson Avenue
Oklahoma City, Oklahoma 73114
Phone: 405-843-2585
Attention: Mr. Kevin Brown
Producer/Supplier Number: 5215-01
www.advchemtech.com

ChemMasters

300 Edwards Street
Madison, Ohio 44057-3112
Phone: 800-486-7866
440-428-2105
Attention: Mr. John Kirk
Producer/Supplier Number: 5410-01
www.chemmasters.net

ChemTec, International

7771 Woodstone Drive, Suite 100
Cincinnati, Ohio 45244
Phone: 513-474-2090
513-658-2090
Attention: Mr. James Sist
Producer/Supplier Number: 5833-01
www.concretesealer.net

Evonik Corporation

2 Turner Place
Piscataway, New Jersey 08854
Phone: 732-981-5463
Attention: Mr. Christopher Hitcho
Producer/Supplier Number: 6900-01
www.protectosil.com

MAPEI Americas

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
Phone: 954-246-8520
Attn: Mr. Bruce Haller
Producer/Supplier Number 6354-01
www.mapei.com

W.R. Meadows

300 Industrial Drive
PO Box 338
Hampshire, Illinois 60140
Phone: 800-825-5976, 224-325-1080
Attention: Mr. Christopher Mader
Producer/Supplier Number: 1266-02
www.wrmeadows.com

SpecChem, LLC

1511 Baltimore Avenue
Suite 600
Kansas City Missouri 64108
Phone: 866-791-8700, 312-579-5166
Attention: Mr. Nick Carroll
Producer/Supplier Number: 6389-01
www.specchemllc.com

Specco Industries

601 North 5th Avenue
Kankakee, Illinois 60901
Phone: 800-441-6646, 630-257-5060
Attention: Mr. Jeff Bencsik
Producer/Supplier Number: 3936-01
www.specco.com

TK Products

11400 West 47th Street
Minnetonka, Minnesota 55343
Phone: 800-441-2129, 608-573-0890
Attention: Mr. Al Wendorf
Producer/Supplier Number: 4173-01
www.tkproduct.com

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Submittal for Testing and Approval

A. Scope

Concrete sealers are intended to provide the universal properties of reducing water and chloride ion penetration, extend the service life of the concrete, and be resistant to traffic wear and the various environmental conditions to which the concrete and concrete sealers may be exposed.

B. Submittal Procedure

When submitting a new concrete sealer for listing on the qualified product list, the Manufacturer shall use the following procedure:

1. The Manufacturer shall submit their product to the American Association of State Highway and Transportation Officials (AASHTO) Product Evaluation and Audit Solutions (Formerly NTPEP) for testing. Information on product submittal procedures and testing cycles is available at <https://transportation.org/product-evaluation-and-audit-solutions>. Once testing has been completed by AASHTO Product Evaluation and Audit Solutions and the results posted, the Manufacturer shall email Anthony Wagner at Anthony.Wagner@illinois.gov to request consideration to be added to the Concrete Sealers Qualified Product List. The email request and sample submittal shall include the following:
 - a. The specific product brand name,
 - b. AASHTO Product Evaluation and Audit Solutions product identification,
 - c. Manufacturer-certified AASHTO Product Evaluation and Audit Solutions test results,
 - d. A 1-quart (1 liter) sample, essentially identical to the material submitted to AASHTO Product Evaluation and Audit Solutions for evaluation, in an identified, suitable container,
 - e. Safety Data Sheet,
 - f. Technical Data Sheet,
 - g. Contact person's name, title, address, email, and phone number,
 - h. A letter signed by a company official with their title stating the subject product will not be changed without prior written notification to the Bureau of Materials,
 - i. Quality Control Plan for the Manufacturing Facility,
 - j. Acknowledgment by Company (form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the Acknowledgement by Company form with your product submittal.

The Bureau of Materials will review the manufacturer certified AASHTO Product Evaluation and Audit Solutions test results, and the Manufacturer will be notified by letter whether the product will be added to the QPL.

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The submittal information and sample shall be sent to:

Attn: Anthony Wagner
Illinois Department of Transportation
Bureau of Materials
126 East Ash Street
Springfield, Illinois 62704-4766

Any sample provided without prior approval or the required information listed will not be tested.

The Manufacturer will be notified by letter when the sample testing is complete whether it will be added to the QPL.

If the Manufacturer has questions regarding the testing and approval process, they may contact Anthony Wagner at 217-782-7218.

C. Maintaining Approval Status

Any changes by the Manufacturer in the formulation of a product outside the Manufacturer's original parameters that were tested shall necessitate the Manufacturer immediately notifying the Bureau of Materials and a new sample submittal.

The Bureau of Materials shall be notified of any change to contact information.

Failure to notify the Bureau of Materials of changes to the product or Manufacturer's contact may result in the removal of the product from the approved list.

Verification samples will be taken randomly of the delivered concrete sealer. The verification samples will be checked for ATR-FTIR spectral analysis and comparison to original qualification samples performed in accordance with ITP 601.

A single comparison value of less than 0.85 in accordance with ITP 601 will result in another sample of the same product being randomly taken from the same or different facility. If that second sample results in a comparison value of less than 0.85, the product will be removed from the approved list.