

Recognized Product List for Bridge Concrete Sealers
May 1, 2024
(this list supersedes all previous lists)

Type 1a

Appl. Rate (mL/m²)	Product Name	Manufacturer	Alberta Supplier
320	Sikagard SN-40 Lo-VOC	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
204	Baracade Silane 40 EX	Euclid Canada Inc.	Con-Spec Industries / Unicon Concrete Specialties / White Cap Supply Canada

Alberta Transportation Sealer Classification:

Type 1a - Penetrating sealers used for traffic bearing surfaces in sheltered conditions where the relative moisture content is less than or equal to 55%.

Notes:

The application rates listed are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit specific project requirements, field conditions, and the type of sealer product previously applied to the concrete.

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction.

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Type 1b

Appl. Rate (mL/m²)	Product Name	Manufacturer	Alberta Supplier
224	Sikagard SN-40 Lo-VOC	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
314	Sikagard-400 Enviroseal* <i>(formerly Master Protect H400 by Master Builders Solutions)</i>	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
174	Protectosil BHN	Evonik Degussa Corporation	Cast Supply / Dukes Distributors / Sherwin Williams
326	Baracade Silane 100C	Euclid Canada Inc.	Con-Spec Industries / Unicon Concrete Specialties / White Cap Supply Canada
204	Baracade Silane 40 EX	Euclid Canada Inc.	Con-Spec Industries / Unicon Concrete Specialties / White Cap Supply Canada
210	SN 471	Soprema Inc.	Soprema Inc.
353	SN 474	Soprema Inc.	Soprema Inc.

Alberta Transportation Sealer Classification:

Type 1b - Penetrating sealers used for traffic bearing surfaces in outdoor conditions where the relative moisture content is less than or equal to 70%.

Notes:

The application rates listed are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit specific project requirements, field conditions, and the type of sealer product previously applied to the concrete.

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction.

* Water based - Concrete surfaces previously sealed with penetrating sealers should be sealed with a solvent base product to maximize penetration and performance.

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Type 1c

Appl. Rate (mL/m²)	Product Name	Manufacturer	Alberta Supplier
155	Sikagard-100 Hydrozo <i>(formerly Master Protect H1000 by Master Builder Solutions)</i>	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
158	Sikagard SN-100	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
167	Dry-Trete 1000L	DRE Industries Inc.	Place-Crete Systems
261	Protectosil BHN	Evonik Industries	Cast Supply / Dukes Distributors / Sherwin Williams
203	PENTREAT™ 244-100	W.R MEADOWS Inc.	Conuvo Construction Materials / Unicon / White Cap Supply Canada /
155	Baracade Silane 100C	Euclid Canada Inc.	Con-Spec Industries / Unicon Concrete Specialties / White Cap Supply Canada
263	SN 471	Soprema Inc.	Soprema Inc.

Alberta Transportation Sealer Classification:

Type 1c - High performance, low V.O.C. penetrating sealers used for new bridges and overlays with low water/cement ratios (0.30 -0.45) where the relative moisture content is less than or equal to 80%.

Notes:

The application rates listed are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit specific project requirements, field conditions, and the type of sealer product previously applied to the concrete.

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction.

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Type 2a			
Appl. Rate (mL/m²)	Product Name	Manufacturer	Alberta Supplier
336	Sikagard A28 Lo-VOC	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
185	TK-Achro Seal AS-1 VOC	TK Products Construction Coatings	Hard Rock Developments

Alberta Transportation Sealer Classification:

Type 2a - One component clear coating for vertical and non-traffic bearing concrete surfaces where the relative moisture content is less than or s vertical concrete surfaces may not retain the required coverage rates, and more than two applications may be needed. A reduction in the required coverage rate generally results in a reduction in the waterproofing performance as well as an increase in the breathability performance of the sealed surface.

Notes:

The application rates listed are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit specific project requirements, field conditions, and the type of sealer product previously applied to the concrete.

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction.

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Type 2b

Appl. Rate (mL/m²)	Product Name	Manufacturer	Alberta Supplier

Alberta Transportation Sealer Classification:

Type 2b - Two component clear coating for vertical and non traffic bearing concrete surfaces where the relative moisture content is less than or equal to 70%.

Caution

On previously sealed concrete surfaces, the sealer product to be applied should be checked for compatibility.

Smooth textured, vertical concrete surfaces may not retain the required coverage rates, and more than two applications may be needed. A reduction in the required coverage rate generally results in a reduction in the waterproofing performance as well as an increase in the breathability performance of the sealed surface.

Notes:

The application rates listed are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit project specific requirements, field conditions, and the type of sealer product previously applied to the concrete.

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction.

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Type 3

Min. DFT - mils (Min. WFT mils)	Product Name	Manufacturer	Alberta Supplier
6.5 (18)	Sika Thorocoat-300 Arctic <i>(formerly Master Protect HB 300 SB)</i>	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
4.5 (11.3)	Sikagard Color A50 Lo-VOC *	Sika Canada Inc.	Cascade Aqua-Tech / Conuvo Construction Materials / Sika Canada / White Cap Supply Canada
5.1 (8.0 - 9.0)	CAT43 Type 3 Sealer	United Supreme Inc.	Cloverdale Paint / Hannigan's Paint

Alberta Transportation Sealer Classification:

Type 3 - Coloured coatings used for vertical non-traffic bearing concrete surface where aesthetics are a primary consideration and the relative moisture content is less than or equal to 70%.

Caution

Manufacturer's recommended surface preparation must be followed closely to ensure durability of the coating. At a minimum, the application requirements of Section 4 of the Standard Specifications for Bridge Construction shall be met.

Notes:

All sealer products must meet the latest requirements of the Material Testing Specification for Concrete Sealers (B388).

All product colours shall be identified by the Federal Colour Standard 595C palette in addition to any manufacturer conventions.

Sealers shall be applied in minimum two coats totalling the approved film thickness. Required film thicknesses are for relative comparison of products on laboratory concrete. Application rates must be adjusted to suit field conditions and application methods. Surfaces shall be immediately back rolled when spray applied.

* if sprayed, product shall be applied in three coats of approximately 4 Mils WFT. No thinning of material is permitted.

All products shall be used in accordance with the Department's Standard Specifications for Bridge Construction and the Manufacturer's recommendations. In the event of conflicts, product shall be used as per Consultant/Department direction. It is the responsibility of the Consultant/Contractor to select the most suitable product for its intended use and performance.

For further information please contact the Bridge Materials Engineer of the Technical Standards Branch (staff directory located at <https://www.alberta.ca/staff-directory.cfm>).