

APPROVED CONCRETE PATCHING MATERIALS FOR BRIDGES
September 4, 2024
(this list supersedes all previous lists)

File 3225-5

HEH	LTH	NH	OH-V	FP	Product	Manufacturer	Alberta Supplier
	X				SikaQuick Set 45 <i>(formerly Master Emaco T545)</i>	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
X					SikaEmaco 1060 <i>(formerly Master Emaco T1060)</i>	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
		X			SikaEmaco 1061 <i>(formerly Master Emaco T1061)</i>	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
				X	SikaEmaco 440 MC <i>(formerly Master Emaco S440 MC)</i>	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
		X			SikaTop 122 Plus	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
			X		SikaTop 123 Plus	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
				X	Sikacrete 08 SCC	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
X	X				SikaSet 45	Sika Canada Inc.	Sika Canada / White Cap Supply Canada / Conuvo Construction Materials / Cascade Aqua-Tech
		X			Mapecem 202	MAPEI Inc.	White Cap Supply Canada / Hard Rock Concrete Supplies / Unicon Concrete Specialties
				X	Planitop 15	MAPEI Inc.	White Cap Supply Canada / Hard Rock Concrete Supplies / Unicon Concrete Specialties
X					Planitop 18	MAPEI Inc.	White Cap Supply Canada / Hard Rock Concrete Supplies / Unicon Concrete Specialties
X					Planitop 18 ES	MAPEI Inc.	White Cap Supply Canada / Hard Rock Concrete Supplies / Unicon Concrete Specialties
			X		Planitop 23	MAPEI Inc.	White Cap Supply Canada / Hard Rock Concrete Supplies / Unicon Concrete Specialties
			X		EucoRepair V100	Euclid Chemical	White Cap Supply Canada / Con-Spec Industries / Unicon Concrete Specialties
		X			VersaSpeed RMC	Euclid Chemical	White Cap Supply Canada / Con-Spec Industries / Unicon Concrete Specialties
X					Euco-Speed MP	Euclid Chemical	White Cap Supply Canada / Con-Spec Industries / Unicon Concrete Specialties
X					VersaSpeed 100	Euclid Chemical	White Cap Supply Canada / Con-Spec Industries / Unicon Concrete Specialties

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- Type HEH** High early horizontal (HEH) patches are used to repair flat areas such as bridge deck potholes or curb top spalls. These products are generally used during the summer when good weather conditions prevail i.e. at temperatures above 10°C, and a high early strength is required in order that traffic may be allowed to resume quickly. They are designed to be poured into place and typically do not require a wet cure.
- Type LTH** Low temperature horizontal (LTH) patches are used to repair areas similar to those described in NH when the ambient temperature is in the range of 0° to 5°C and generally during the spring and late fall. Do not use Type LTH in hot summer conditions. They are designed to be poured into place.
- Type NH** Normal horizontal (NH) patches are used to repair areas such as bridge deck potholes or curb top spalls. These products are generally used during the summer when good weather conditions prevail. Traffic or overlay may be placed after three days of curing. They are designed to be poured into place.
- Type OH-V** Overhead or vertical patches (OH-V) are used to repair areas such as high load damage to precast girders, spalling on the underside of bridge decks, vertical faces of curbs, pier caps, abutment seats and backwalls. These products are generally used during the summer when good weather conditions prevail. They are generally designed to be applied by trowelling rather than forming.
- Type FP** Form and Pour or Form and Pump patches are used to repair areas similar to those described in OH-V. In addition, it could also be used on vertical surfaces such as walls, columns, and beam sides and bottoms. FP patching materials have high self-compacting properties, high viscosity and low yield. They are designed to be poured or pumped into formed repairs.

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.

All patching products must meet the latest requirements of the "Material Testing Specification for Concrete Patching Materials" (B391) found at <https://www.alberta.ca/transportation-construction-products-and-materials-overview>. 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>).