## GPREMERA



**SHAKE GENTLY** 

## T2 MCM

Sol-Gel Based Clear Top Coat

## **Protective Technology**

- · High Durability, Easy-Clean Top Coat
- · Excellent Adhesion to Surface
- Excellent Chemical and Corrosion Resistance

2 Minute Full Cure Sealer

PREMERA®

**Quick Seal** 

Fast Cure Stain & Seal or Pre-Seal for T2 MCM

**Protective Technol** 

- · Instant Hydrophobic Effec
- Add Acetone-Based Dye for Fast, Single-Step Stain & Ser

IMPORTANT

IMPORTANT

Not for use over rillicone



**SHAKE GENTLY** 

## FP1 Fusion Primer

Sol-Gel Based Fusion Primer for Concrete Substrates

### **Protective Technology**

- Fuses Top Coat to Surface
- High-Strength Cross-Linking
- Not for Use with Water-Based
   Paints or Top Coats

#### PREPARATION

Protect of markices not dealgrated for coating applications standing water, greater, oil or other contouring electrical characteristics. Confirm surface observancy with a light on surface does not well uniformly, use a necessary with a light on the number surface contouring the surface most be classified to remove surface contouring that surface most be classified to the CONCRETE - Bersave all dust, debrie and other than 38 days and, PREMINIA HLT must be used prior to be coated with PREMINIA products \$6 hours after pour

EXISTING CONCRETE - intended surface must be all contain bents behaling band breeten, eurface gr nurface areas, use an autocontider with an appropri-

SURFACE & AIR TEMPERATURE - 46 - 100f (7 - EQUIPMENT - For horizontal automates, use on vertical/upright substrates, use on inter-spray gua.

STORABE & HANDLING - trans in a cook dry / habitated shall the sessumes spright starage of horizon Albeit to ANDLING.

Swinn use, read Properation, Howard and Precourse nor ALMERTS TEST using the equipment and procedures pri-TYPICAL COVERAGE BATES

Smooth Concrete Ensure Finish Dismond Grind

980-800 980-300 980-990

HORIZONTAL SURFACES - Ensure ourhance to the wipe prior to appoint the appointed on of Fundam Informer, if an invent will not along and ensure the cleaned with an autoencerubiner to clean and day, Fundam Informer appointation many beginned to have a stain to appropriat an autoence, On tensors finds at boses a stain to appropriat an autoence, On tensors finds at boses, there are an area, 3-4 onto 1977 enough, appropring. Observe have the accounts alternate the first account at books at bothers the Fundament application and to



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#### **IMPORTANT**

Not for use over silicone or modified polymer grout



#### PREPARATION

Protect of surfaces and designated for cooling applicable have standing water, greates, all or other contembrates observed, Coordina surface absorberry with a fight water surface standardinate. Buffers must be stress and other surface standardinate. Buffers must be stress and other team 34 days and research at 15 more all dust, debut and other team 34 days and research at 15 more as recommended a surface standardinate. Buffers must be used prior to 12 MCM CONCRETE - between all dust, debut and other team 34 days and research protects. Buffers and 15 for how to 12 MCM application. Buffer to 12 MCM application. Buffer to 12 MCM in QUICE SEAL instructions and 156 for how to be to 12 MCM in QUICE SEAL instructions and 156 for how to be to 12 MCM in an appropriate restation products. PREMISE QUICE SEAL must be applied to 14 more an authors about a major product protects. PREMISE quice SEAL instructions and 150 for how to 15 more and 150 seal and 150 more to 150 more and 150 seal and 150 more and

## PREMERA T2 MCM TOP COAT

Premera T2 MCM Top Coat stands at the forefront of cutting-edge surface protection. As a sol-gel based clear coat, it's designed to redefine standards, providing unparalleled durability and shielding. This revolutionary sol-gel based solution streamlines your coating process by removing the need for grinding or sanding substrates.

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01

#### Crystal Clear Durability:

T2 MCM, with its quartz composition, delivers an ultra-durable top coat while maintaining the clarity of glass.



04

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#### UV Stable and Industrial-Grade:

T2 MCM is not only UV-stable but also industrial-grade, standing strong against various environmental challenges.

02

#### Chemical Fusion Strength:

The silane component ensures a robust chemical fusion between the protective layer and the substrate, providing unmatched strength.



05

#### Versatile Finishes:



Choose from gloss, satin, or matte finishes, tailoring the aesthetic to your preferences.

03

#### **Extended Overcoat Window:**

With a 60 minute recoat window, T2 MCM offers a stress-free application process.



## 06

#### No Prep Needed:

Skip the grinding and sanding—T2 MCM bonds seamlessly to clean surfaces, saving time and effort during application.



emera T2 MCM Top Coat

## **APPLICATIONS**



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## 01

#### **Direct to Difficult Substrates:**

T2 can bond directly to difficult substrates such as polished concrete, terrazzo and tile, uniquely delivering both high performance chemical and abrasion resistance.

## 02

#### **Top Coat for Coatings:**

It excels as a top coat for a variety of coatings, providing enhanced protection and clarity.

## 03

#### **Decorative Concrete:**

T2 MCM is a popular choice for decorative concrete, offering both aesthetic appeal and industrial-grade protection.

#### Why T2 MCM?

Unrivaled strength, simplified application, versatile finishes, and industrial-grade protection make T2 MCM the top choice for durable and efficient coatings.



TECHNICAL DATA (All values @ 77 °F / 25 °C)	US	Metric
Volatile organic compounds (ASTM D2369)	< 0.83 lb./gal	< 100 gm/ liter
Theoretical coverage	400 - 600 Ft2 /gal @ 1.0-1.5 mils DFT	9-14 m²/liter @ 25-38 microns
Specific Gravity of materials (ASTM D792)	7.36 lbs./gal	0.88 kg/liter
Shelf life @ 77 °F /25 °C	12-18 Months	12-18 Months
Flash point - pensky martin closed cup	15 °F	-9 ℃
Application Temperature	45 – 105 °F	7 – 40 °C
Abrasion Resistance CS-17 1000 Cycles (ASTM 4060)	23 mg Loss	
Surface Flammability (ASTM E162)	Heat Index 0 (Best Result)	
Adhesion to 800 Grit Polished Concrete	1200+ PSI Cohesive Concrete Failure	
(ASTM 4541) Accelerated UV Exposure 1000 hrs.	dE: <0.5	
(ASTM G154)		
Thermal Cycling (ASTM 6944) 50C - 4 Hours Immersion @ 25C - 4 Hours -29C - 16 Hours	No Effect	
Solvent Resistance - MEK (ASTM 4752	1000 Rubs - No Effect	
Shore D Hardness (ASTM D2240)	72 +/- 3	
Operating Temperature	-200F - 350F	
PROCESSING PROPERTIES (Under standard lab cond	ditions)	
Touch Dry	2-3 hours	
Dry Through	3-5 hours	
Recoat interval	0-60 minutes	
To be walked on	Min 6-8 hours	
To be exposed to vehicular traffic	Min 3 days	
Full Cure	5-7 Days	

Properties and values are highly dependent on equipment, spray gun, spray pressure, temperature, and related parameters. Variations are possible and expected.

## SURFACE PREPARATION

Protect all surfaces not designated for coating application. Do not apply to frozen, dirty, or water-contaminated surfaces. Ensure intended surfaces are







Confirm uniform absorbency with a light water spray; if uneven, use a recommended cleaner or auto scrubber to remove contaminants. Surfaces must be clean and dry before application.

#### **New Concrete**

Remove dust and debris. For concrete less than 28 days old, use PREMERA HLT before T2 MCM. Coating can be applied 96 hours after pour with HLT; without it, concrete must cure for 28 days.

#### **Existing Concrete**

Surface must be clean, dry, and structurally sound. Remove contaminants. For larger areas, use an auto scrubber. Surface must be dry. PREMERA QUICK SEAL is required for direct-to-concrete applications.

#### Meta

Surface must be clean, dry, and structurally sound. Remove contaminants and corrosion. Cold rolled steel needs an anti-corrosion primer. Apply T2 MCM directly to non-ferrous metals, galvanized, and stainless steel. Remove contaminants and corrosion. Cold rolled steel needs an anti-corrosion primer. Apply T2 MCM directly to non-ferrous metals, galvanized, and stainless steel.

#### **Existing Coating**

Ensure the surface is in good condition and well-adhered. Remove contaminants and correct any imperfections. Use an auto scrubber for larger areas. T2 MCM provides top-notch protection to existing coatings.

## Surface & Air Temperature

Maintain between 45 – 105F (7 – 40C).

#### **Equipment**

04

Use an acetone-proof pump sprayer with a cone tip for horizontal substrates. For vertical surfaces, use an HVLP spray gun.

#### Storage & Handling

Store in a cool, dry place <80F. Seal container after dispensing. Published shelf life assumes upright storage in a dry place <80F.



NA

**n7** 





# APPLICATION GUIDELINES

01



#### **Horizontal Surfaces**

- 1.1 Shake the closed container gently to avoid air entrapment.
- O1.2 Ensure a dust-free surface; wipe immediately before applying T2 MCM. It can be applied directly to densified, +800 grit polished concrete. If the concrete is troweled, ground, honed, or polished under an 800 grit finish, apply Premera Quick Seal first.

2



- **02.1** Ensure a dust-free surface.
- O2.2 Use an HVLP spray gun with a 1 inch by-8inch elongated, vertical spray pattern.
- O2.3 Spray one coat, keeping a wet edge while applying.



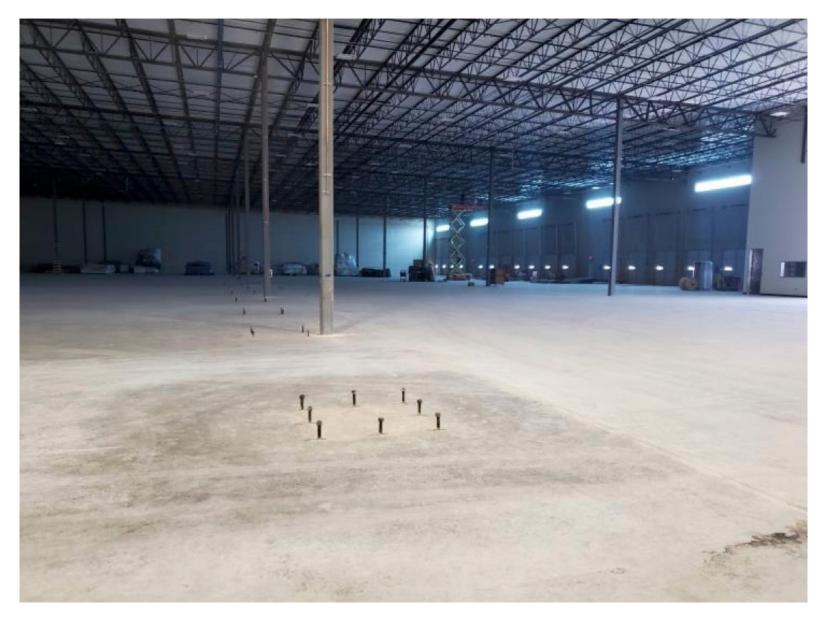
## CASE STUDY

#### **Overview:**

Elringklinger, a leading auto parts manufacturer, inaugurated a new production facility in San Antonio, TX, in 2022. Faced with the challenge of safeguarding their concrete floors from a range of harsh conditions, including high process temperatures, hot tire pickup, exposure to industrial chemicals, and potential forklift battery acid leaks, they turned to Premera T2 MCM as the exclusive solution to address these demanding wear factors.

#### Value Delivered:

Premera T2 MCM stands out as the ideal combination of robust industrial performance and user-friendly installation. As a single-component, spray-down product that self-levels and eliminates the need for backrolling, the installation team efficiently coated over 100,000 square feet. This not only delivered industrial-grade protection but also achieved a visually appealing, decorative finish. The simplicity of the application process, coupled with the superior performance, reinforced the client's satisfaction, making Premera T2 MCM the go-to solution for their ongoing manufacturing operations.





Location: San Antonio, TX Size: 100,000 square feet System: Premera T2 MCM

Date: July 2022





premeracoatings.ae









Not for use over silicone or modified polymer grout



Technology