Technical Data Sheet

PREMERA AT1 QSE (Quick Seal & Enhance)

DESCRIPTION

Premera AT1 QSE is a fast-drying, solvent based, water repellent sealer designed to enhance the surface and to protect stone, concrete & masonry surfaces from nature's destructive forces, providing a long lasting barrier which exhibits superior resistance to water, mold, airborne dust and dirt, alkali, freeze/thaw damage and spills. (You can also stain and seal in one step by adding acetone based dyes into the sealer).

FEATURES

- Stain and water repellant
- Very fast drying
- Breathable
- Can be used on most Natural and Artificial Stone, Concrete, and Masonry Products.
- Breathable
- Penetrate the surface of the substrate
- Enhances and deepens natural colors of substrate
- Repel moisture, stains and mold from within the substrate. Long-lasting, easy to clean
- Reduced maintenance costs
- Protects most Natural and Artificial Stone, Concrete, and Masonry Products against moisture, stains, dirt, mold.

TYPICAL USES

- Protection of substrates against Moisture, stains, dirt, mold.
- Surface Enhancement
- Suitable for most Natural and Artificial Stone, Concrete, and Masonry Products.
- Suitable sealer under Premera T2 MCM

COLORS

Clear. To change color add a Concrete Stain.

PACKAGING

1 quarts, 1 gallon buckets, 5 gallon pails, 55 gallon drums, 275 gallon totes

COVERAGE

Coverage will vary depending on the porosity and texture of the substrate and applicator. 150-600 Ft2 /gal

Smooth Concrete 500-600
Broom Finish Concrete 350-450
Porous Concrete 150-250
Split Face Block 200-250
Fluted Block 200-250
Concrete Block 200-250
Brick (Clay) 150-300
Stucco 250-300
Sandstone, Limestone 250-300
Flagstone, Concrete Pavers 250-300

Unglazed Ceramic/Porcelain 400-500
Travertine, Tumbled Marble 300-400
Artificial Stone 250-300

STORAGE

Twelve to twenty-four months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture. Store at temperatures between 50 °F and 80 °F (10 °C and 27 °C).

MIXING

Ready to use. There is no need for mixing or diluting.

TECHNICAL DATA (All values @ 77 ºF / 25 ºC)	**US**	**Metric**
Volatile organic compounds (ASTM D2369)	< 0.17 lb./gal	< 20 gm/ liter
Theoretical coverage	150 – 600 Ft2 /gal	3.7-15 m²/liter
Specific Gravity of materials (ASTM D792)	6.7 lbs./gal	0.8 kg/ liter
Shelf life @ 77 ºF /25 ºC	12-24 Months	12-24 Months
Flash point - pensky martin	<-4 ºF	< -20 ºC
Application Temperature	45 – 105 ºF	7 – 40 ºC
PROCESSING PROPERTIES (Under standard lab conditions)		
Touch Dry	1-2 minutes	
Dry Through	5 minutes	
Recoat interval	5 minutes	
Full cure	5 minutes	
Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Values are slightly different for clear. Variations are possible and expected.		

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material. Then rinse with fresh water and allow to dry. Do not use on painted surfaces.

If using a Concrete Stain, it needs to be mixed into AT1 QSE 1 hour before application to ensure the powder stain is completely dissolved into the mixture. Mix the stain in when you arrive at the job site and set aside while you clean the floor and mask off so it's ready to go. Remove all existing silicone sealers. To determine if the surface is sealed with another coating or curing compound, sprinkle water onto surface. If the water is absorbed and the surface becomes darker, it has not been sealed. If the water beads up there is a coating or sealer that must be removed to allow proper penetration. After removing any and all silicone sealers, rinse with fresh water and allow to dry.

New Concrete

For new concrete, the surface needs to be dried to 13% moisture or less using contact meter method and must be cured at least 7 days from the date of pour. All surfaces need to be cleaned. Hard troweled smooth surfaces need to be abraded to 220 grit. A mixture of 50% acetone and 50% water should be used to remove any slurry accumulated in the pores of the surface.

Existing Concrete

For existing concrete, the surface must be cleaned of any existing sealers, silicones, grease and dirt. After removing existing sealers or silicones, rinse with fresh water and allow to dry. Hard troweled smooth surfaces need to be abraded to 220 grit. A mixture of 50% acetone and 50% water should be used to remove any slurry accumulated in the pores of the surface.

Stone

For new porous natural or artificial stone, make certain the surface is clean and dry by either lightly power washing or steam cleaning. Allow to dry to 13% or less moisture content using contact meter method. For existing natural or artificial stone, the surface must be cleaned and stripped of any previous sealers that may contain silicone.

APPLICATION:

Test Area: Due to the wide variety substrates, always test Premera AT1 QSE in an inconspicuous location to ensure performance and compatibility with the surface.

Stir the container to re-suspend the nano particles that have settled to the bottom. Make certain to re-stir every 15-20 minutes during the application process re-suspend the nano particles to ensure proper performance. This sealer contains acetone to accelerate dry time. Be sure to keep lid on container on to prevent evaporation. Premera AT1 QSE is best applied with an acetone/alcohol proof pump sprayer fitted with a red fan tip. To apply, hold the fan tip square to the surface being sealed at approximately 10” to 12” above the surface. In a circular motion spray with a light mist, do not try and seal the surface in one thick coat as this will cause air bubbles to appear. Apply several light coats approximately 2 – 3 minutes apart until the desired look is achieved and the surface is sealed. Extremely porous surfaces may require 3 to 4 applications or more to seal and enhance. When spraying outdoors, make certain there will be no rain for at least 5 minutes after anticipated completion time. If there is high wind, this will affect the quality of the finish as blowing wind can disrupt the spray pattern from the sprayer and contribute to contamination of the finish. It may be necessary

to erect a windscreen to protect the area prior to beginning the coating application.

CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarp’s to avoid spray dust from traveling and contaminating other surfaces with over spray dust. Tented and enclosed areas require that they be positively supplied with fresh air and have ventilated exhaust to outside using fans. Never spray near any open source of ignition such as pilot light, flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors.

T2 MCM Protection (optional)

To protect the enhanced or stained concrete against food and liquid acid etching, apply a coat of T2 MCM as a topcoat. Concrete Coat is available in gloss or satin finish. Once desired finish is achieved with Premera AT1 QSE (with or without stain), wait 5 minutes, then lightly go over the surface with a floor machine and white Scotch-Brite pad. Wipe up or vacuum any remaining dust or debris. Apply Concrete Coat (see Concrete Coat Data Sheet for application Instructions).

LIMITATIONS

As treated and untreated surfaces may look similar, finish work on an obvious point such as a corner or mark where you have stopped.

WARRANTIES AND DISCLAIMERS

Nukote Coating Systems International, a Nevada, USA Corporation warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper mixture and application of the components by the applicator. Nukote Coating Systems has no role in the application of the finished polymer other than to manufacture and supply its two components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of plural component equipment and application of plural component materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Nukote Coating Systems International and executed under seal by a company officer.