

SPRAYSHIELD GREEN II

**SUPERIOR STRENGTH,
SUPERIOR PROTECTION.**

Biobased polyurethane
solutions for preserving our
infrastructure and
environment.



SPRAYROQ
STRUCTURAL PROTECTIVE LINING SYSTEMS

SPRAYSHIELD GREEN II

APPLICATIONS

- [+] Manholes
- [+] Lagoons
- [+] Secondary Containment
- [+] Wet Wells
- [+] Digesters
- [+] Pipelines (Man Entry Only)
- [+] Clarifiers
- [+] Grit Chambers
- [+] Tunnels
- [+] Lift Stations
- [+] Junction Boxes
- [+] Pump Housings

For nearly two decades, Spraywall from Sprayroq Inc., a VOC free, spray-applied polyurethane, has provided structural rehabilitation for over 150,000 water and wastewater structures around the world.

Sprayroq has now joined the growing community of companies promoting a Green Product line to be used for corrosion coatings in our city's wastewater collection and treatment systems.

SprayShield Green II removes 34% of its petroleum based material and replaces it with a unique, environmentally friendly, biobased material.

No compromising quality. No compromising the environment.



DESCRIPTION

SprayShield Green II is a semi-rigid, 100% solids polyurethane coating which provides chemical resistance for concrete, steel, masonry, fiberglass and other surfaces in municipal, industrial agricultural and maritime applications. SprayShield Green II is formulated for use in wastewater water environments. SprayShield Green II's quick curing time allows the newly protected structure to be returned to service quickly.

TYPICAL USES

SprayShield Green II is ideally designed for applications on surfaces that are exposed to acids, corrosives and other caustic elements. Environmental factors such as freeze/thaw cycling, vibration and seismic activities have no affect on the performance of SprayShield Green II.

COLOR

Lime Green is the standard product color.

COVERAGE

16 square feet per gallon at 100 mils thickness.

SOLIDS BY VOLUME & VOC'S

100% solids by volume and VOC (Volatile Organic Compounds) Free.



APPLICATION METHOD

SprayShield Green II is applied by utilizing a proprietary heated plural component spray system. Complete integrated spray systems information is available by contacting Sprayroq.

SURFACE TEMPERATURE

70°F / 21°C minimum recommended | 122°F / 50°C maximum recommended for optimum protection.

CURE & RECOAT TIME

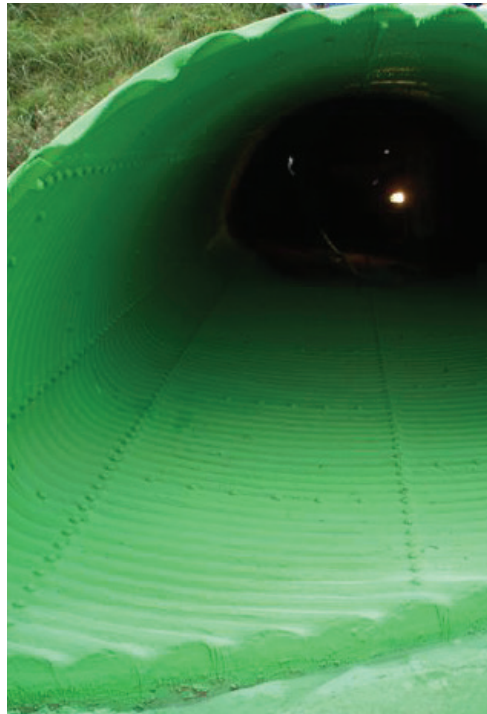
After the A and B components are mixed, SprayShield Green II begins to gel in about 8 seconds, with a tack free condition after one minute. Within 30 minutes, the initial cure is completed and the structure is capable of accepting flow while the complete curing process continues for the next 4-6 hours.

SprayShield Green II may be applied up to 250 mils (1/4") / 6mm thick in a single application.

Note: If several coats are applied, no contaminants should be allowed between coat applications. Surfaces should be profiled and cleaned thoroughly to remove any contaminants between coats. In addition, all precaution should be taken to protect the application surfaces between coats.

BIOBASED* CONTENT
34%

*The biobased content percentage is defined by the amount of recycled or renewable source materials contained in the finished matrix.





PREPARATION

Surfaces to be treated must be cleaned of all oil, grease, rust, scale, deposits and other debris or contaminants. All resins, including SprayShield Green II, require a clean and dry substrate for optimal technical performance of the product.

STEEL

Specific surface preparation may be necessary for different types of steel. Surfaces to be coated should be prepared in accordance with SSPC-SP10 or NACE No.2: “Near White Blast Cleaning”.

When applicable, an alternate procedure may be employed using high (>5000 psi / >34.5 MPa) or ultrahigh (>10000 psi / >69.0 MPa) pressure water cleaning or water with sand injection and approved rust inhibitors. The anchor profile for surface preparation must be a minimum of 3 mils.

CONCRETE & MASONRY

Low (2500 – 3000 psi / 17.2-20.7 MPa) to high (>5000 psi / >34.5 MPa) pressure water cleaning, shot blasting, abrasive blasting and water cleaning can be used to prepare these surfaces. Pressures will vary based on the specified CSP required.

FIBERGLASS

Prepare fiberglass by rinsing, neutralizing, scarifying and cleaning with water or a mixture of water and solvent. Be sure that all dust and loose particles are removed. The surface should be thoroughly dry before application of SprayShield Green II.

MIX RATIO

Part A, Resin | Part B, Hardener | 1 : 1 by volume

SHELF LIFE & STORAGE

Shelf Life: 6 months in sealed, unmixed containers at 60°F / 15°C. Store in a sheltered area between 60°F and 85°F / 15°C and 30°C.



PERFORMANCE TESTING FOR SPRAYSHIELD GREEN II FORMULA

TEST DESCRIPTION	METHOD	IMPERIAL	METRIC
Tensile Strength	ASTM D638	2983 psi*	20.6 Mpa*
Elongation	ASTM D638	43%	43%*
Tear Strength	ASTM D624	593 pli*	103 Kn/m*
Flex Modulus	ASTM D790	75,750 psi*	522.3 Mpa*
Abrasion, mg loss / 1,000 cycles	ASTM D4060	52.6*	52.6*
Water Permeation g/day/m ³	ASTM E96	1.49*	1.49*
Hardness, Shore D	ASTM D2240	62-68**	62-68**
Density, lbs./ft ³	ASTM D792	67.5lbs./ft ^{3**}	1081 kg/m ³ *

*Texas Research Institute, Austin, TX | **Sprayroq Inc. Laboratory

WARRANTY & DISCLAIMER

As best determined, the technical data represented for all Sprayroq products is deemed to be accurate. All products are to be applied by trained and approved Sprayroq Certified Partners only and in strict accordance with the directions for usage and installation of the Sprayroq product. Sprayroq guarantees the products to conform to the quality assurance procedures established by Sprayroq and its resin blending partners. We assume no responsibility for coverage, performance or injuries resulting from the use of our products. Liability, if any, is limited to the replacement of the product for a period of three years from the date of application only. Sprayroq is not responsible for any treble expenses, liquidated damages or related labor expenses stemming from the use of this product. No other warranty is made by Sprayroq, expressed or implied, statutory or by operation of the law, including merchantability and fitness for a particular purpose.

CONTACT US TO LEARN MORE!

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