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## SPGX COATING TECH DATA

**ARMORPOXY SPGX** is a clear/pigmented (with optional pigment packs) Single Component roll-on, UV-stable, cross-linked Polyurea coating with a high gloss finish. SPGX Single component Polyurea utilizes Polyaspartic, Urethane and Polyurea technologies to create a top coat that provides a durable, chemical, impact and abrasion resistant surface for a variety of applications.

### CURING

At 75°F (24°C) and 50% relative humidity allow to cure for 8-12 hour prior to permitting light foot traffic and 24-36 hours before permitting heavy traffic. Allow 24-48 hour of curing prior to permitting wheel traffic and parking on the surface.

### FEATURES

- Rapid cure time
- Unlimited pot-life
- UV resistant
- No mixing
- Abrasion resistant
- Durable

### TYPICAL USES

- Warehouse floors
- Garage floors
- Manufacturing facilities
- Stain system top coat
- Shop floors
- Overlay top coat

### MINIMAL ENVIRONMENTAL IMPACT

SPGX is committed to keeping the environmental impact of our manufacturing operations, products and services to an absolute minimum. Our systems have been engineered to have minimal impact on our environment in both the manufacturing and application process. SPGX coatings are produced with the latest state of the art high performance components. This approach creates systems designed to reduce waste and emissions while increasing durability and longevity, thus reducing the environmental impact throughout their full lifecycle.

## **TECHNICAL DATA**

### **PHYSICAL PROPERTIES**

SPGX POLYUREA COATING

250 gm/liter (voc)

Pot life @ 75°F (24°C) 50% RH Single component

Curing (each coat) 2-6 hours

Light foot traffic 8-12 hours

Wheel traffic 2-3 days

Tack free @ 72°F 2-3 hours

Total Solid Content (Volume) 62 %

Elongation ASTM D-412 25%

Tensile (psi) 4800 (clear)

Color stability excellent 100% aliphatic

Tear ASTM D-624 550 lbs/in

Hardness ASTM D-2240 70-75 D

Shelf life 12- months

Viscosity range (SC) 800 cps

### **ABRASION RESISTANCE ASTM 4060-90**

Taber Abrader CS-17 Wheel 12.0 mg loss 1000gm /1000 cycles.

### **COVERAGE RATES (Dry) (Per Gallon) Subject to**

substrate condition ( estimate ) 2.0 Mils = 500 sqft / 4 Mils = 250 sqft. / 8 Mils = 125 sqft.

### **Chemical Resistance ASTM D543**

#### **(24 hour full Immersion)**

Sulfuric Acid 5% G

Sulfuric Acid 10% F

Citric acid 1% E

Isopropyl Alcohol 99% F

Aviation Fuel G

Diesel Fuel G

Gasoline E

Ammonia E

Sodium Hydroxide E

Sodium Hypo Chlorite 5% E

Lactic Acid F

Hot Tire E

Brake Fluid P

Sulfuric Acid (Battery, Acid) F

### **PRECAUTIONS**

Moisture vapor emission in the concrete (MVE) to be less than 3-pounds per 1000 sq. ft. for 24-hour period.

Calcium Chloride test ASTM F1869-98 recommended. Should not be applied in direct sunlight or on elevated surface temperatures. Clear coating may turn opaque or cloudy in exterior application due to moisture

penetration. Rating:

E= No Effect

G= Limited Effect

F= Moderate Effect

P= Unsatisfactory

### **SURFACE PREPARATION FOR STEEL**

For best results; SSPC-SP10 or NACE 2 Near White Metal Blast Cleaning A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Compatible with Zinc and Epoxy primers.

### **SURFACE PREPARATION FOR CONCRETE**

Reference SSPC-SP13 / NACE #6, ASTM D 4259, ASTM D 4260. Surfaces must be clean, sound, dry, and free of oils, grease and other bond inhibiting contamination. Failure to properly prepare the surface could result in the product delaminating from the surface. All contamination, form -release agents, efflorescence, curing compounds, shall be removed. Minimum profile range must be achieved to insure good mechanical bonding.

**APPLICATION**

SPGX should be thoroughly mixed with a mixing stick or low speed mechanical mixer prior to applying. If you are using the pigmented version with optional tint pac and using multiple containers we suggest that all of the product and tint be placed into larger containers and mixed together including the pigment to prevent slight shade differences from field tinting. Once mixed, put back into the gallon cans to keep from the air. Re-seal cans not being used. Failure to mix all of the product and tints together could create shade differences which is not covered under the warranty. SPGX can be applied by using a 3/16" low Nap adhesive type roller with a solvent resistant core. A 1/16" V - notch squeegee can be used and then back rolled. SG -SCP can be applied using brush, airless sprayer and cup sprayer at low pressure. SG-SPGX should be applied at 2-8 mils. Thicker application will increase the cure time.