

### Description

SR 444 is a 100% Solids low-Mod Epoxy Skid Resistant Coating, choice of two hardeners for different cure rates

### Applications

Primarily used as an overlay system for asphalt and concrete surfaces.

### Advantages

- Variable skid resistance based on choice of aggregate
- Fast cure
- Resists road salt and moisture
- Decreases black ice build-up on chances of hydroplaning on roadways
- Extends bridge and highway service life
- Available in a standard and a slow version

Physical Properties				
	Method	SR 444 Resin	SR 444 Hardener	SR 444-S Hardener
Composition		Epoxy	Amine	Amine
Mix ratio by weight or volume at 77°F (25°C)		2	1	1
Aspect		liquid	liquid	liquid
Color		light amber	light amber	light amber
Mixed Viscosity at 77°F (25°C) (mPa.s)	ASTM D-2393	-	950	950
Pot life at 77°F (25°C)			16 minutes	22 minutes
Final cure			7 days	7 days

### Application Instructions

**Surface Preparation:** Surface must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter. Remove water and dust from all surfaces with an oil-free air blast immediately prior to application of compound.

**Mixing Instructions:** Temperature of product must be 50°F (10°C) or above at time of mixing. Stir each component separately before blending. Mix two parts, by volume, of Part "A" with one part, by volume, of part "B" for three minutes with a low speed electric drill motor equipped with a mixing paddle.

**Application:** Apply product to a clean, dry surface with a squeegee, roller, or spray equipment. Approximate rate of application for a bridge deck is 100 square feet per gallon. For skid resistance: Broadcast clean, dry sand at a rate of 1 to 2 pounds per square yard.

**Cleaning:** All tools and equipment should be cleaned before the system gels. Use methyl ethyl ketone or any lacquer solvent.

SR 444 Thin Film Tack Free Time in Hours							
	40°F (4°C)	50°F (10°C)	60°F (16°C)	70°F (21°C)	80°F (27°C)	90°F (32°C)	100°F (38°C)
Regular	8 - 16	6 - 12	4 - 8	3 - 6	2 - 4	1.5 - 3	1 - 2
Slow	12 - 20	9 - 15	6 - 10	4.5 - 7.5	3 - 5	2.3 - 3.8	1.5 - 2.5

This table is based on ambient air and surface temperatures. Other factors such as sun, wind, humidity, aggregate loading, particle size, and color may result in significantly shorter or longer times than given here

### Application Limitations

- Do not thin product. Solvents may prevent proper curing.
- Substrate temperature should be 40°F (4°C) minimum and rising.
- For best results, materials should be maintained between 65° - 75°F (18° - 24°C) during application.
- Do not apply through standing water.
- Minimum age of concrete – 28 days.
- Material becomes a vapor barrier after cure.
- Concrete or masonry must be tested for water-vapor transmission prior to application.
- Do not use in expansion joints (moving joints).

Mechanical Properties			
Hardness		Shore D	80
Glass transition temperature (Tg)	TMA	°F (°C)	131 (55)
Compressive strength	ASTM D-695	psi (MPa)	7,600 (52)
Compressive modulus	ASTM D-695	psi (MPa)	357,000 (2,460)
Tensile strength	ASTM D-638	psi (MPa)	18,700 (130)
Tensile modulus	ASTM D-638	psi (MPa)	275,000 (1,900)
Flexural strength	ASTM D-790	psi (MPa)	12,700 (88)
Flexural modulus	ASTM D-790	psi (MPa)	373,000 (2,570)
Application Temperature			Above 40°F (4°C)

### Storage Conditions

- Product is guaranteed for 12 months when stored in original unopened containers between 59 – 77°F (15 – 25°C). Any opened can must be tightly closed.

### Handling Precautions

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation
- Wear gloves, and safety glasses

For further information, please consult the material safety data sheet.

### Guarantee

The information contained in this technical data sheet results from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantees the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaims all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.

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