

TECHNICAL INFORMATION HIGH PERFORMANCE SPRAY ELASTOMER

PROPERTIES	PURE POLYUREA			POLYURETHANE/ POLYUREA HYBRID		POLYURETHANE
	MAXGUARD U-251	MAXGUARD U-290	MAXGUARD U-192	MAXGUARD H-790-NH	MAXGUARD H-760	MAXGUARD P-855
VISCOSITY, CPS	300-800	500-1000	150-450	500-800	400-800	200-500
HARDNESS	45-55 D	85-90 A	90-9 3 A	30-35 D	60-65 D	55-65 D
TENSION, PSI	2500-3500	1900-2200	145 0-1700	1500-1600	2900-3400	2300-2900
ELONGATION, %	500-700	900-1000	430-500	600-750	80-90	60-80
TEAR, PLI	400-500	300-350	400-450	300-350	290-330	350-400
ISO (A-SIDE)	U-251-A	U-290-A	U-192-A	U-290-A	A-109	A-109

SOLUTION	MAXGUARD U-251	MAXGUARD U-290	MAXGUARD U-192	MAXGUARD H-790-NH	MAXGUARD H-760	MAXGUARD P-855
COMMERCIAL	●●●●●	●●●●●	●●●●●	●●	●●	●●●●●
MANUFACTURING	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
WATER	●●●●●	●●●●●	●●●●	●●	●●	●
WASTE WATER	●●●●●	●●●●●	●●●●	●●	●●	●
INDUSTRIAL	●●●●●	●●●●●	●●●●	●●●●●	●●●●●	●
EDUCATION	●●●●●	●●●●●	●●●●	●●●●	●●●●	●
OIL AND GAS	●●●●●	●●●●●	●●●●	●●●●	●●●●	●
AGRICULTURAL	●●●●●	●●●●●	●●●●	●●●●	●●●●	●●●●●

● = FAIR ●● = GOOD ●●● = GREAT ●●●● = EXCELLENT

APPROXIMATE YIELD TABLE

MILS (.001)	INCHES	SQ. FT. PER GALLON	SQ. FT. PER SET
40	0.04	40	4240
60	0.06	27	2827
70	0.07	23	2423
80	0.08	20	2120
100	0.10	16	1695
120	0.12	13	1413
250	0.25	6	678

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PROTECTION,
WATERPROOFING
AND CONTAINMENT
SOLUTIONS



Developed with
<20% of Renewable
and Recycled Content

MAXGUARD®
PREMIUM POLYUREA

MAXGUARD® PREMIUM POLYUREA PROTECTION

Our many variations of Maxguard® are used across industries such as civic construction, industrial, agricultural, commercial & residential building, oil & gas, water and education.

Maxguard coatings are non-toxic, rapidly curing products that can be applied on virtually any contour to provide a monolithic containment barrier. This provides a solution for substrates including wood, concrete, metal, geotextile and polyurethane foam.

Maxguard products are ideal for protection of metal, steel, polyurethane foams and concrete containment structures, offering exceptional mechanical properties and outstanding chemical resistance.



Maxguard U-290

Maxguard U-290 provides high performance in all climates and offers optimum results when applied in temperatures ranging from -4 degrees to 300 degrees Fahrenheit. Maxguard U-290 also offers high elongation 900%+, resistance to impact and the ability to bridge small gaps less than 1/8 of an inch. Maxguard U-290 cures quickly, minimizes project down time, and can be sprayed year-round; neither high nor low temperatures affect Maxguard U-290. This spray-applied coating protects common materials from weather, corrosion and chemical exposure. These impact-resistant membranes have excellent adhesion, which protects surfaces, extends useful life and minimizes substrate degradation.

Maxguard U-192

Maxguard U-192 provides optimum results with low-pressure equipment. No high-pressure equipment required. Our Maxguard U-192 elastomeric coating provides many advantages due to its versatile properties and applications. A huge benefit of Maxguard U-192 is that building professionals who already have the low-pressure equipment used to spray polyurethane foam, can also spray Maxguard U-192. It can be applied on virtually any contour to provide a monolithic containment barrier. This provides a solution for substrates including wood, concrete, metal, polyurethane foam and geotextile.

Maxguard U-251

Maxguard U-251 is a two-component polyurea elastomer offering very high mechanical properties. This system is based on amine-terminated resins and a diphenylmethane diisocyanate (MDI) prepolymer. It can be used as a containment membrane with or without geotextile fabric. Maxguard U-251 can be sprayed on steel, concrete, wood and polyurethane foam. Given its fast reactivity, this product can be applied to horizontal and vertical substrates.



COMMERCIAL

Maxguard coatings are used commercially for truck bed liners as they form a durable, water- and air-tight permanent liner for the exterior of pick-up trucks, dump trucks and steel containers. These durable, easy to clean and abrasion-resistant liners protect utility trucks from their heavy-duty environments. They also protect against rust and corrosion from damaging trucks and containers. Theme parks often use Maxguard coatings as a protective coating over polyurethane foam and other structures to create ornamental building fascia, themed characters, artificial rocks, swimming pools and environments.



MANUFACTURING

There are many manufacturing uses for Maxguard, including poultry sheds, pig farms, agricultural farms, refinery tanks, pipes and refracting towers, exterior decorative sculptures, filling in cave entrances, domes, ice holds in ships and fishing boats, flotation buoys, masts of ships (for structural strength), floating docks and cryogenic buildings (extreme cold storage, -60°F).



EDUCATION

The quick-setting, versatile Maxguard polyurea coatings are effectively used on the exterior of schools and other institutional buildings, offering additional protection from corrosion to a variety of substrates including those sprayed with polyurethane foams. With qualities such as hardness, flexibility and high abrasive resistance, Maxguard coatings also offer a slip resistance benefit when used to protect high-traffic flooring areas, such as classrooms, hallways and cafeterias.



INDUSTRIAL

Maxguard coatings provide an ideal solution for secondary containment under storage tanks, and also protect and seal oil tanks from corrosion, chemicals and other natural weather and job site elements. With proper surface preparation, substrate conditions, formulation choice, primers and installation procedures, Maxguard applies quickly and can extend the useful life of tanks. Maxguard is also used to fill cracks, cover floors for high-traffic areas, seal pipelines and cover pipe joints.

Maxguard is the perfect partner for closed-cell spray foam insulation that is used to insulate the exterior of tanks, such as bio-diesel tanks. Additional applications in the industrial sector include floor and covering in all types of processing plants, hazardous materials encapsulation, aquaculture basins, renovation and protection of port structures, and internal and/or external protection of vats.



OIL & GAS

Our polyurea coatings are increasingly being used to protect steel pipes from corrosion. Polyurea coatings possess the ability to last longer than paint and maintenance services, which reduces overall costs. Polyurea coatings are ideal for protecting pipes that are insulated with polyurethane spray foam. In addition, polyureas are commonly used in fuel pits and as pipeline secondary containment.

PRODUCT BENEFITS:

- Application on vertical, horizontal and slanted surfaces -All forms and all dimensions
- Adheres to most types of substrates (wood, concrete, metal, geotextile, polyurethane foam)
- Covers existing or new surfaces
- Available in several colors
- High thermal stability (to cold and heat)
- Can be sprayed in different thicknesses
- Smooth or slip resistant finish
- Resistant to basic (alkaline) and weak acidic substances
- Highly resilient



Maxguard H-750 and H-760

Maxguard H-750 and H-760 are high-performance polyurea hybrid membranes designed for the protection of steel and/or concrete substrates. This hybrid is tough and durable and is also used for truck bed liners, exterior basement walls, sprayed automotive parts and high-traffic areas. It provides excellent abrasion, corrosion and chemical resistance.

Maxguard P-855

Maxguard P-855 is a spray-applied polyurethane system in the Maxguard line. This high-performing product is chiefly used in the agricultural and recreational industries. It produces a super hard surface, which makes it perfect for securing agricultural ponds. With its versatile properties, P-855 is also used to simulate playground rocks while providing an array of other recreational industry applications.

THESE COLOR* OPTIONS ARE AVAILABLE FOR ALL MAXGUARD FORMULAS.



White (10)



Light Grey (20)



Dark Grey (29)



Very Dark Grey (27)



Black (90)



Clear (00)



Tan (35)



Sand (36)



Dark Brown (39)



Dark Blue (89)



Ocean Blue (84)



Slate (28)



Dark Red (59)

* colors may vary slightly.