

PRODUCT DATA SHEET

MAXON

525

Maxon 525 is a premium quality 100% solids epoxy coating designed for exacting duty in tough corrosive/erosive conditions. 525 has been designed to withstand a wide range of caustic chemicals, its primary design application is to resist Sulfuric Acid from 75 to 98%. It is also a non-conductive medium, which makes it ideal for application in mines or locations where electric current issues are prevalent.

Pure liquid epoxy resins are used for maximum chemical resistance.

Although proper surface preparation is always recommended for optimum performance Maxon EP525 is so tolerant of substandard surfaces that it may easily be applied and cured underwater with good results.

Maxon 525 is formulated without solvents. This allows extremely high film thickness to be applied without the danger of solvent entrapment common with most high performance coatings.

RECOMMENDED USES

MARINE AND OFFSHORE: Heavy-duty linings in heat exchange equipment and on steel exposed to chemical or physical attack.

POWER GENERATION: Tube sheet, water-box, draft-tube and penstock linings.

INDUSTRIAL MAINTENANCE: Heavy duty lining for steel and concrete where extreme resistance to aggressive chemicals such as 50% caustic soda or 98% sulfuric acid is required.

TECHNICAL INFORMATION

VEHICLE TYPE	: PURE EPOXY/ALIPHATIC POLYAMINE
PIGMENTATION	: COLOR/INERT
STANDARD COLORS	: ALL COLORS INCLUDING WHITE
FINISH	: HIGH GLOSS
THINNER/CLEANER	: Thinners not normally required, use MEK for clean-up.
MIXING RATIO	: 3/2 BY VOLUME
INDUCTION TIME	: NOT REQUIRED
POT LIFE	: 45 MINUTES/QUART MASS @ 77°F
FLASH POINT	: OVER 100°F
SOLIDS BY VOLUME	: 100%
REC. DRY FILM THICKNESS	: 8.0 – 10.00 MILS PER COAT, THREE (3) COAT APPLICATION
THEO. SPREADING RATE	: 200 SQ.FT./GAL @ 8.0 MILS; 64SQ.FT./GAL @ 25 MILS
APPLICATION METHOD	: BRUSH, PAD, ROLLER HEATED PLURAL AIRLESS SPRAY
DRY TIME – TOUCH	: 4 HRS/77°F
DRY TIME – HARD	: 18 HRS/77°F
OVERCOATING TIME – MIN	: N/A WET ON WET ACCEPTABLE
OVERCOATING TIME – MAX	: 7 DAYS PROVIDING SURFACE IS CLEAN AND INTACT
SHELF LIFE	: 12 MONTHS MINIMUM FROM DATE OF SHIPMENT
VOC	: ZERO

APPLICATION NOTES

Maxon 525 is an advanced performance material designed to offer maximum service in difficult exposures while offering extreme "field friendliness" in mixing ratio and tolerance of typical practical application conditions. The complete absence of solvents in this formulation ensures freedom from odors during application and curing and eliminates the osmotic blistering often found in other high performance coatings as a result of retained water sensitive solvent left in the cured film after curing.

SURFACE PREPARATION:

It is imperative to have a clean substrate before applying this or any product. In most cases our epoxy products are used in concert with CRS and C2M products. Surface prep can be accomplished by high pressure water blasting, degreasing, and clean water blasting finish. 525 can be applied directly upon CRS and/or C2M as required by job specs. Application directly to CRS can occur when CRS is dry to touch. Same applies to C2M.

Maxon 525 will tolerate extremely compromised surfaces to the extent that it may be applied underwater to cleaned surfaces with excellent results. The formulation is designed to be hydrophobic in order to repel water during application and curing. High relative humidity or exposure to liquid water during curing will have negligible effect on performance. Temperature can have a significant effect on the rate of curing, in broad terms expect each 10°C (18°F) rise or fall in temperature to half or double dry times and pot lives.

MIXING: Maxon 525 is formulated with aliphatic, (straight chain), curing agents in order to obtain flexible and light colored films and to avoid the handling problems of aromatic polyamines. The formulation is supplied prepackaged in a field-friendly 3/2 ratio by volume, if a small quantity is required for minor touch up this may be mixed on the job using, for example, plastic coffee cups or similar vessels as disposable containers. Ensure the components are completely mixed before use, "sweat-in" or induction time is not required for this material. Larger quantities such as the standard 2 gallon kit are best mixed by mechanical mixers especially on large jobs where hand mixing quickly becomes tedious and unreliable.

APPLICATION: Application of Maxon 525 in smaller areas such as tube sheets and water boxes is straightforward using brush, roller, pad etc. Larger areas may also be coated using the tools above however it may be economical to employ heated, plural component airless spray equipment which gives excellent productivity and film appearance.

"Stripe coating" is recommended in applications where there are sharp edges present from structural features, cutouts etc. After surface preparation by abrasive blasting apply the first full coat and allow to cure until firm enough to allow access to the work area without damage then brush apply a "stripe" coat to all edges. This simple procedure ensures proper coverage of edges and greatly extends the service life of anticorrosive systems.

WE URGE YOU TO READ THE MATERIAL SAFETY DATA SHEET (MSDS) BEFORE USING PRODUCT AND TO CALL THIN FILM TECHNOLOGY, INC. AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION.



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SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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