TECHNICAL DATA SHEET

Max VertiPox®

Vertical Pipe Rehabilitation Resin System

Max VertiPox® Resin | Max VertiPox® 30 Hardener | Max VertiPox® 60 Hardener

DESCRIPTION

Max VertiPox Resin Systems are two-part, 100% solids epoxies uniquely formulated for Vertical piping and in-building applications that offer superior mechanical properties, chemical resistance and adhesion to pipe materials — even under very humid and wet conditions. As a part of the MaxLiner® lining systems, these resins are specially designed for ambient cure and formulated with excellent wet-out capability for quick and consistent sewer service repairs. Max VertiPox resins have ultra low-odor, zero VOCs and are Styrene-free.

TECHNICAL DATA

Max VertiPox Resin Systems are a 3-to-1 ratio epoxy system designed to meet all specifications for full structural CIPP (Cured-In-Place Pipe) liner conforming to ASTM F1216. Using Max VertiPox Base Resin in conjunction with Max VertiPox Hardeners will achieve a fully cross-linked system to form a high quality, long-term solution. Mixed resin pot life varies with temperature and total mass of material mixed. The data provided below is for reference only. For more detailed product information, contact MaxLiner prior to use.



VertiPox® Resin Part A



VertiPox® Hardener Part B

REACTION DATA	
Mixing Ratio A:B	3:1 by weight
Components	70°F | 21.11°C prior to mixing
Cure	Hot water, hot air or ambient cure – see detailed instructions

MATERIAL DATA				
		MAXPOX RESIN	MAX VERTIPOX 30 HARDENER	MAX VERTIPOX 60 HARDENER
Weight	lbs/gal	9.52	8.62	8.43
Color		Yellow	Light Brown	Light Brown
Viscosity	At 77°F | 25°C	3,000 cps	233 cps	230 cps
Gel Time	100 gm at 73°F | 23°C		40 min	60 mins
Cure Time			1.5 hours ambient	1 hour at 150°F | 65.56°C 4 hours Ambient

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MECHANICAL PROPERTIES				
SYSTEM COMPONENTS		ASTM F1216	30 HARDENER	60 HARDENER
Flexural Modulus, psi	ASTM D790	250,000	373,531	339,289
Flexural Strength, psi	ASTM D790	4,500	9,559	10,159
Tensile Strength, psi	ASTM D695	4,000	8,784	5,500
Tensile Elongation, %	ASTM D638	3,000	4,655	4,597
Elongation, %	ASTM D638	5	5	5

COMPONENTS
Max VertiPox Resin Base (Part A) is uniquely formulated 100% solids unfilled epoxy resin. Max VertiPox Hardeners (Part B) are modified Amine curing agents.

SYSTEM
3 parts of resin (Part A) and 1 part of hardener (Part B) by weight are mixed thoroughly for a minimum of 3 minutes at approximately 200 rpm. Take precautions not to incorporate air while mixing. The mixed resin is then used to fully saturate (wet out) MaxLiner tubes specially designed for MaxLiner Lining Systems. Follow MaxLiner recommendations for equipment and procedures for liner wet-out and installation

FINAL PRODUCT
The combined resin and liner system is cured after insertion into the host pipe to form a tough, strong renovated pipe. It is resistant to gravity municipal sewage, acids and alkalis commonly found in an impermeable drains, sewers and commercial wastewater.

SHELF LIFE AND STORAGE
It is recommended that the resin is pre-mixed before decanting from a tote, and also in the bucket before use. Resins are stable for one year in well-sealed containers in a sheltered area between 65 - 80°F | 18.33 – 26.66°C. Max VertiPox Resins are formulated for resistance to crystallization. However, if in the event of crystallization, contact MaxLiner immediately prior to use.

SAFETY
Always use Personal Protective Equipment (PPE) when using this product. Do not ingest. Always read the container label warning and Safety Data Sheets (SDS) prior to use. If you do not understand or cannot adhere to the guidelines and procedures for handling and use of these products in strict accordance with the SDS, do not use these products. SDS can be downloaded from the MaxLiner Mobile App or website.

DISPOSAL
Disposal must conform to local and state regulations.

It is important to note that the MaxPox Resin System is specifically designed for CIPP applications and has not been modified from another industry resin in attempt to fit the complex environmental, design and performance needs required in underground rehabilitation industry.

TECHNICAL SUPPORT
Call technical support with additional questions at (877) 426-5948.

DISCLAIMER
The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto. Exact coating type and thickness depend on the specific types of resin being used. Always read, understand, and comply with hazard warnings described in the products' Safety Data Sheet(s) before use.