

RS MaxPatch® Resin Systems

Description

RS MaxPatch Sectional Pipe Repair Systems include non-foaming, elasticized, two-component, odor free resins for the application of partial liners in localized pipe repairs. As a part of the RS MaxPatch Sectional Pipe Repair System, the resin system has excellent chemical resistance and adhesion properties, low shrink and cures under ambient conditions, even in the presence of water. It is used in conjunction with RS MaxPatch Fiberglass Matting to produce a structural solution to repair short sections of pipelines without excavation. RS MaxPatch is certified by NSF International to NSF/ANSI 14, NSF SE 10990, the Uniform Plumbing Code™ and the International Plumbing Code.



Technical Data

Mixed resin pot life varies with temperature and total mass of material mixed. The laboratory data provided below is for reference only. For more detailed product information, contact RS Technik prior to use.

Reaction Data	
Mixing Ratio A:B	1:2 by volume
Components	RS MaxPatch Winter or Summer (Part A) RS MaxPatch (Part B)
Cure	Ambient cure – see detailed information

Material Use	Summer Resin System			Winter Resin System		
	50°F (10°C)	68°F (20°C)	86°F (30°C)	50°F (10°C)	68°F (20°C)	86°F (30°C)
Pot life*	30-50 min	25-38 min	20-25 min	25 min	15 min	8 min
Curing time*	270-290 min	120-140 min	85-105 min	150 min	90 min	50 min

* Laboratory values may vary from field results

RS MaxPatch

Material Data

		Part A	Part B
Density	77°F (25°C), lbs/gal	12.43 ± 0.42	9.43 ± 0.33
Color		Honey color	Black/brown
Viscosity	77°F, cps	300 ± 140	150 ± 50

Components

RS MaxPatch Part A is a special waterglass (aqueous sodium silicate) with additives. RS MaxPatch Part B is a modified polyisocyanate. RS MaxPatch Fiberglass Matting is specifically designed for RS MaxPatch applications.

System

Measured volumes of Part A and B are mixed and applied to the required size of fiberglass matting, wrapped tightly around and secured to an inflatable rubber packer, pulled into position, expanded against the host pipe using air pressure and cured under ambient conditions. The packer is then deflated and removed, completing the sectional repair.

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 municipal sewage, acids and alkalis commonly found in drains, sewers and commercial wastewater.

Packaging

Bags: Pre-measured components in total volumes: 0.5L, 1.05L and 1.5L

Pails: Part A 62 lbs; Part B 47 lbs

Drums: Part A 617 lbs; Part B 463 lbs

Shelf Life and Storage

At least 12 months from date of delivery when stored in a dry place between 50-86°F (10-30°C). Frost may damage part A. If flocculation occurs or if the material's shelf life has been exceeded consult RS Technik prior to use.

Safety

Refer to the Safety Data Sheets for these products for safety and health information prior to use. Follow all notices on the SDS. 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. Contact RS Technik at 919-481-1977 for a copy of the Safety Data Sheets.

Disposal

Follow local, state and federal regulations for disposal. Refer to product SDS for additional information.

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 test 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. Always read, understand, and comply with hazard warnings described in the products' Safety Data Sheet(s) before use.