

RAM-100®

ANTI-CORROSION COATING

LIQUID EPOXY

RAM-100 | RAM-100 SP PLUS

ANTI-CORROSIVE AND MECHANICAL PROTECTION FOR
PIPING AND SUPERFICIAL INFRASTRUCTURE

RAM-100® is a proprietary formula for a liquid epoxy coating for the repair and reinforcement of Oil & Gas piping and other structures. RAM-100® is a cutting-edge thermosetting epoxy monolithic cement corrosion-protection agent for steel or concrete pipes and existing oil structures that are subject to attack by a variety of acids, corrosive vapors, aggressive environments, micro-organisms, thermal shock, salinity, humidity, and wear, caused by friction or abrasion.

RAM-100® is formulated specifically for automated application at the plant to new piping, or for manual application on-site to active pipelines; its formula has been successfully tested in its properties to provide state of the art mechanical, anti-corrosive, and anti-acid protection. It is also ideal for setting or joining anti-acid and wall protection slabs, neutralization basins, drains, trenches, doorposts, and concrete pipes; that are exposed to severe corrosion conditions and abrasive agents due to acids used in the oil industry, chemical products, fertilizers, corrosive vapors, hydrocarbons (crude and refined), water, or aggressive agents. It is technically designed for applications from 8 to 480 mils without losing its protective properties.

RAM-100® is available in two presentations:

- RAM-100 – original formula, and
- RAM-100 SP PLUS – with a modified viscosity for various applications

RAM-100® can be applied to:

- Interior and exterior surfaces of new piping in our automated plant located in Veracruz, Mexico.
- New or recovered pipes on-site with our certified automated mobile plant.
- Manually or by aspersion-based method on-site to pipelines and operational structures and/or facilities.
- By high-pressure hoses for subsea infrastructure.

Our proprietary formula is complemented with aliphatic polyamide resins, reinforced with quartz and zirconium powders, intercalating inert plastic charges and prepared in two components for an easy application.



RAM-100® SP PLUS – Technical Data

Application	Automated, Manual, by Asperion, at the Manufacturing Plant, Mobile-Plant, or On-site
Installation	Easy and fast installation on active pipelines and structures without interrupting the operations, in a dry, humid, or wet environment
Durability	Varies from 0.043 kg/m ² @ 1mils (0.0254 mm), and over 35 to 70% additional for spray application, and depending on NPS, weather and surface conditions, and proper application and experience by the user
Drying time	120 to 180 minutes @ 25°C (77°F)
Gel time	2 hours for water immersion / 24 hours for chemical operations
Service temperature	-5°C to 145°C (23°F to 293°F)
Shelf life	60 months in a dry place in original sealed containers
Chemical resistance	Excellent
Abrasion resistance	High
Permeability	100% – antifouling
Dielectric resistance	440 V/mil
Warranty	20 years and up to 30 years of protective properties
Ballast application	Directly on RAM-100® SP Plus coating

Additional information

RAM-100® SP PLUS (asperion)	Available in 20kg pails labeled for each component (A or BASE and B or CATALYST)
DQP-100 (modifier)	Available in 20 liter pails or 200 liter drums
Time of application	30 – 45 minutes @ 24°C (75.2°F)
Application temperature	-5°C (23°F) to 90°C (194°F)
Operating temperature	-5°C (23°F) to 135°C (275°F)
Shelf life	Up to 18 months from the date of manufacture stored in a shaded dry place, in the original sealed containers
Thickness	Varies depending on number of layers per application
Number of layers	As required per each repair
Layer thickness	0.060 to 0.075 mm
Length	0.3 m (1 ft.) to the required length to repair the integrity deficiencies found
Geometry	Easily applied to straight, bent, curved, and any shape required for the repair
UV finish	For protection to UV ray exposure, apply a 3-5 mm layer of polyurethane finish

RAM-100® products are developed and manufactured exclusively by **RAM-100 del Sureste, S.A. de C.V.** using a patented formula under Patent number 182885 and Trademark number 526546.

Contact us to obtain a quote, for additional details or specific questions:

Phone: 07 3161 6600 | Mobile: 0411 385 373 | Fax: 07 3910 1120

Email: geoff@pipeserv.com

Web: www.pipeserv.com

NORTHEAST
11140 Rockville Pike, Suite 100-105
Rockville, MD 20852

RAM-100 INTERNATIONAL, LLC

SOUTH
4822 N Sam Houston Pkwy W, Suite 100
Houston, TX 77086