

MasterRoc[®] SRS 720

Two-component, fast-reacting, spray-applied resin for high-resistance surface support

Description

MasterRoc SRS 720 is a fast-reacting, two-component resin designed to enhance stability and protect against weathering across a wide range of surfaces. The components are mixed and applied as a thin paste, hardening within minutes to provide high tensile and bond strength. With excellent adhesion to most substrates, the product significantly improves ground stability and stand-up time.

Applications

MasterRoc SRS 720 resin is recommended for use in various tunneling and mining applications, including:

- Stabilization of excavation faces and surrounding rock after blasting or cutting
- Rock reinforcement in hard-to-access areas
- Alternative to mesh/screen protection, with or without bolts
- Preliminary surface protection before final construction
- Mitigation of strain bursting and large deformations in hard rock
- Protection against air-slacking and rock weathering
- Pillar/rib support
- Rehabilitation of damaged or unstable areas
- Masonry and brick line refurbishment
- Vent-stopping applications

Features

- Fire-resistant
- Fast setting and rapid strength development (< 5 minutes)
- Strong adhesion to a variety of substrates (rock, coal, concrete, steel, etc.)
- Water-resistant – prevents expansion or degradation upon water contact
- Easy to mix even at low temperatures (> 40 °F (5 °C))
- Ready-to-use for simple and efficient application

Benefits

- Enhances structural stability and safety
- Increases service life of treated surfaces
- Reduces material waste with precise application
- Improves efficiency in tunneling, mining, and rock stabilization

Performance Characteristics

Technical Data

Physical properties:

	COLOR	VISCOSITY, MPAS	DENSITY, lb/ft ³ (g/cm ³)
Part A	Colorless	490	86.8 (1.39)
Part B	Dark Brown	150	73.7 (1.18)

Reaction characteristics:

Setting Time	3 min ± 20s
Expansion Factor	1
Compressive Strength	> 5000 psi (35 MPa)
Shore D Hardness	> 65

Note: Test at 73 °F (23 °C)

Guidelines for Use

Equipment and Application Procedure: Part A and Part B of MasterRoc SRS 720 resin are delivered ready to use. They should be applied in the ratio of 1:1 by volume, using a standard 3-component piston or gear pump equipped with a static in-line mixer nozzle, as shown in the photo below.



Consumption: The Consumption rate of MasterRoc SRS 720 resin is dependent on the substrate's roughness. The recommended thickness is a minimum of 1/8 inch (3 mm). To get this recommended thickness on a smooth surface, approximately 0.7 gallons per 10 ft² (3.0 L per m²) of mixed resin is required.

Cleaning of Equipment: For short breaks during the application, run a pump cleaner (for example, MasterRoc MP 231 CLN) through the nozzle and the static in-line mixer.

After the application process, thoroughly clean the equipment with MasterRoc MP 231 CLN to prevent residual material buildup.

Storage and Handling

Storage Temperature and Shelf Life: If stored in dry conditions, in unopened and tightly closed original containers, and within a temperature range of 40 °F to 95 °F (5 °C to 35 °C), MasterRoc SRS 720 resin has a minimum shelf life of 24 months. Exposure to direct sunlight should be avoided during storage.

Safety: The use of gloves, eye protection, and safety clothes during handling is recommended. Any physical contact (e.g. skin or eyes) with the product should be avoided. If contact with skin occurs, wash thoroughly with soap and water. In case of eye contact, rinse thoroughly with water and seek immediate medical advice.

Uncured products should not be allowed to enter local drainage systems. Spillage must be collected using absorbent materials such as sawdust or sand and be disposed of following local regulations.

For further information, refer to the Safety Data Sheet or contact your local Master Builders Solutions representative.

Packaging

MasterRoc SRS 720 is available in 249-gallon (941 L) IBC totes, 52-gallon (197 L) steel drums, and 5-gallon (19 L) HDPE pails.

Related Documents

Safety Data Sheets: MasterRoc SRS 720 Part A and MasterRoc SRS 720 Part B

Additional Information

For additional information on MasterRoc SRS 720, please get in touch with your local sales representative.

Limited Warranty Notice

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