

Product Data Sheet

Concrete Rubber S.B.R.-4815

Sea Star Concrete Rubber 4815 Is A Ready For Use Aqueous Dispersion Of A Styrene-butadiene Copolymer With High Stability Against Electrolytes. It Contains An Anionic/nonionic Emulsifier System And Is Free From Film Forming Aids, Solvents, Plasticizers And Ammonia.



TYPICAL PROPERTIES

Property	Value	Method
Solid content, %	48.5	ISO 3251
pH Value	8.0	ISO 976
Surface Tension, mN/m	30.0	
Viscosity, mPas	30	ISO 3219
Glass Transition Temperature, °C	- 5	
Density, g/cm ³	1.01	
Mean Particle Size, µm	0.15	
Minimum Film-Forming Temperature, °C	< 3	
Tensile Strength, N/mm ²	6	
Elongation at break, %	1000	

GENERAL INFORMATION

SEA STAR CONCRETE RUBBER 4815 is used in combination with cement, lime gypsum, etc. Addition of SEA STAR CONCRETE RUBBER 4815 improves workability, wet adhesion and plasticity of fresh mortars.

The dispersion has a strongly liquefying effect and reduces the water requirement at the

same mortar consistency. SEA STAR CONCRETE RUBBER 4815 improves following end properties, flexural strength (up to 50 %), adhesive strength, abrasion / water / chemical / freeze / thaw resistance and shrink /swell behavior. SEA STAR CONCRETE RUBBER 4815 has extremely good resistance to saponification, by which long term stability in the strongly alkaline region even under moist conditions is secured.

The dispersion has no corrosion promoting action on steel reinforcements and is film forming above + 3 °C. Additions of film forming agents or plasticizers are therefore not required. SEA STAR CONCRETE RUBBER 4815 is used in floor, screeds, leveling compounds, adhesive – bonded joints, sealers / primers, repair mortars for concrete restoration, cement – based anti corrosion paints, gypsum –based stoppers / fillers, and building adhesives. Owing to the limited UV-stability of styrene – butadiene copolymers surface chalking can occur. This behaviour is identical with unmodified mortars. Addition of 10 – 50 % by weight of SEA STAR CONCRETE RUBBER 4815 – related to the cement content – is recommended for the improvement of mortars.

APPLICATION ADVICE

SEA STAR CONCRETE RUBBER 4815 is preserved against bacterial and fungal attack. In the manufacture of finished products, the material has to be retreated, as usual, with suitable biocides to give enhanced preservation.

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PHYSICAL DATA

• Form	Liquid
• Color	Milky
• Odour	Faint
• pH	7.0- 9.0 (20 C)
• Melting Point	0C WATER
• Boiling Point	100 C Water
• Flash Point	No flash point
• Ignition Temperature	Not applicable
• Density	1.010 – 1.040g/cm ³
• Water Solubility	Dilutable

HAZARDS IDENTIFICATION

On available data SEA STAR CONCRETE RUBBER 4815 has no hazard classification according to 88/379 EEC. The surfactants and to a lesser extent the free monomer present in polymer dispersions can cause dermatitis through repeated contact in sensitive individuals. Eye contact may cause irritation.

COMPOSITION AND COMPONENTS

• Chemical Nature:	Aqueous dispersion of a copolymer of styrene and 1,3 butadiene
• Isononylphenol ,ethoxylated	>=1%

STABILITY AND REACTIVITY

• Stability	Stable
• Conditions to avoid	Direct sunlight and freezing

EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Controls:

Local exhaust ventilation may be required in circumstances where the product is sprayed , heated or dried.

Personal Protection:

• Respiratory	Masks when spraying
• Hand	Gloves if risk of skin contact
• Eyes	Goggles if risk of splashing
• Skin	Standard industrial overalls if splashing.

FIRST AID MEASURES

• Skin exposure	Wash with water removed contaminated clothing.
• Eye exposure	Wash with large amount of water. Seek medical attention if irritation persists.
• Ingestion	Give plenty of water to drink and obtain medical advice.

DISPATCH AND STORAGE

SEA STAR CONCRETE RUBBER 4815 has to be stored protected from frost and, as far as possible, below 40°C. Storage at temperatures between + 5 and + 30 °C is recommendable. SEA STAR CONCRETE RUBBER 4815 contains a preservative to counter microbial attack during transportation. Care must be taken to ensure that storage containers are tightly closed. When stored correctly SEA STAR CONCRETE RUBBER 4815 has a storage life of 12 months from date of delivery.