

PRODUCT DATA SHEET

PRODUCT NAME

Raymix - SBR LATEX

MANUFACTURER

Société Raymond Barakeh SAL.
Bauchrieh, Industrial City, Sector 7, 40 – Street 86
Ph. 00961 1 690594 www.barakeh.com Beirut – Lebanon.

DESCRIPTION

Raymix - SBR LATEX is a Synthetic Rubber Latex Dispersion composed of Styrene Butadiene Rubber white emulsion containing an antifoam additive.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance	White
Specific Gravity at 20°C.	1.01 ± 0.02
Solid Contents	<47%
pH	7-8
Chloride Content	Nil.
Storage life in manufacturer's drums	Indefinite.
Freezing Point	- 5°C

The information and data given is to the best of our knowledge reliable, but is given without obligation.

APPLICATION FIELDS

Raymix - SBR LATEX is intended to be used in a wide range of applications in construction work as well as specialized usage as an adhesive.

Conventional applications include:

- Durable renders and screeds.
- Floor repairs.
- Crack ceilings.
- Tile bedding.
- Acid resistant floors in dairy plants, abattoirs, factories...

ADVANTAGES

- **Raymix - SBR LATEX** improves adhesion of mortar, i.e. thinner layers may be applied.
- **Raymix - SBR LATEX** increases resistance to abrasion.
- **Raymix - SBR LATEX** increases resistance to chemical agents attack.
- While adding **Raymix - SBR LATEX** to mortar, it will become more workable which will lead to an increasing of the density, reducing permeability to water, while strength is increasing.
- Greater flexibility to mortar is obtained thus will increase resistance to cracking.

MIXING

The application of **Raymix - SBR LATEX** varies according to the purpose of its use.

Normal dosage of **Raymix - SBR LATEX** should be between 10 and 25% of the cement's weight used.

P.S.

- If dosage exceeds this limit, cement will hydrate at a slower rate.
- Care must be taken for protection against premature drying if used in thin screeds.

USES

- Best added to concrete or mortar by diluting it first into the mixing water.
- **Raymix - SBR LATEX** water mixture should be in the ratio of 1:1 to 1:4 in order to improve cementitious materials properties.
- **Raymix - SBR LATEX** is specifically designed to be used as an admixture with building materials based on cement
- **Raymix - SBR LATEX** improves the mechanical properties of concrete and mortars by providing a polymer lattice within the cementitious matrix. This leads to better mixing of the aggregate with the binder, thereby increasing resistance to abrasion.
- The use of **Raymix - SBR LATEX** improves the adhesion of mortar to various substrates such as mature concrete.
- As a primer, **Raymix - SBR LATEX** has bonding results. Cement slurry containing **Raymix - SBR LATEX** is also a good bonding agent.
- When added to concrete and mortars, **Raymix - SBR LATEX** increases their tensile strength by 20% to 50%, depending upon the dosage used.
- Workability of fresh concrete or mortar containing **Raymix - SBR LATEX** allows reduction of water: cement ratio. This leads to a stronger mix and the hardened material is less permeable to water.
- **Raymix - SBR LATEX** is suitable for use with all Portland cements as well as high alumnae cements.

APPLICATION

In order to achieve good adhesion of screeds or coatings to the substrate, ensure that substrate is sound, clean and dust-free. Use mechanical means to remove any kind of oil, grease or organic contamination.

For application of slabs or screeds to existing concrete, surface must be rough. Smooth surfaces must be scabbed lightly before application of the fresh mix. Always moisten the substrate with water before placing the modified mortar or concrete.

If the substrate is to be primed with coats of grout or **Raymix - SBR LATEX**, use a stiff brush or broom and work well into the surface, then place the systems, which are to be bonded while the primer is still tacky.

SUGGESTED LINES

Application	Cement : Sand Ratio	SBR : Water Ratio
Paving patching / screeds	1 : 2 to 1 : 3	1 : 1 to 1 : 3
Levelling, jointing	1 : 1 to 1 : 3	1 : 1 to 1 : 3
Bonding, Priming Coats	1 : 1 to 1 : 2	1 : 1
Bedding tiles, kerbstones	1 : 2 to 1 : 3	1 : 2 to 1 : 3
Rendering	1 : 3 to 1 : 4	1 : 2 to 1 : 4
Grouts	1 : 1	1 : 2 to 1 : 3

APPLICABLE STANDARDS

ASTM C 1059 – 99

QUALITY STANDARDS

Raymix - SBR LATEX is a Quality Assured product produced to ISO Standard ISO 9001.

TYPICAL PROPERTIES OF STANDARD 1:3 MORTAR

Raymix - SBR LATEX Content %	0	10	20
Zone 3 Sand (Kg)	150	150	150 Kg
Ordinary Portland Cement(Kg)	50	50	50
Raymix-SBR Latex (Litres)	5	10	20
Water (Litres)	25	19.2	15
Water : Cement Ratio	0.51	0.44	0.41
Wet Density (Kg/m ³)	2190	2180	2170
Air Content (%)	6.0	7.0	7.5
Compressive Strength(N/mm ²) At 3 days (2)	34.2	35.4	34.0
At 28 days (3)	44.5	46.5	45.5
Flexural Strength (N/mm ²) At 3 days (2)	5.4	6.2	6.7
At 28 days (3)	5.7	9.1	11.1
Bond Strength (N/mm ²) At 3 days (2)	0.1-0.2	0.5 - 0.7	0.7 - 0.9
At 28 days (3)	0.2- 0.3	1.0 - 1.2	1.5 - 1.7

TECHNICAL SERVICE

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment details of which are available upon request.

HEALTH & SAFETY

Raymix - SBR LATEX is formulated from chemicals which present no fire or health hazards. However, the product is mildly alkaline and contact with the skin and eyes should be avoided by use of protective clothing. Spillages, should be washed down immediately with cold water.



PACKAGING

Raymix- CSHDP is supplied in 25, 210 and 1000 litres free, non-returnable containers.

STORAGE

12 months in undamaged, tightly sealed containers.

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Contact:

Société Raymond Barakeh SAL
P.O.Box 119737 – Beirut – LEBANON

Phone : 00 961 1 690594 – 3 260989

Fax: 00 961 1 690594

E.Mail : info@barakeh.com

Http://www.barakeh.com

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