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VURA SBR+

VURA SBR+ is modified styrene butadiene rubber white milky liquid which is high quality latex for multipurpose use. It is specially designed for use as a bonding aid, waterproofing coating and repair of existing structures (used for bonding, repair concrete rendering). It is ideal to apply internal and external applications after mixing with cement. **VURA SBR+** is a high quality emulsion that increases the quality of cement mortar / slurry / concrete / cementitious grout.

USAGE

- As a bonding agent between old and new concrete, mortar, render, screed layers.
- As an adhesion promoter of render over insulation boards and similar materials.
- Waterproof plasters, damp-proof, anti-carbonation/anti-efflorescence coating with cement slurry.
- For making polymer mortar for repair.
- As an additive for patching or mass-infill polymer mortar.
- Long life and watertight masonary jointing (cold joints treatment).
- As a bonding agent and additive for polymer modified mortars in structural repair applications.
- For Waterproofing of roof slabs, overhead/underground water tanks, sunken portion of toilets/ bathrooms, terraces, basements, retaining walls, sunshades etc in combination with cement.
- As an additive for injection grouting into cracks and fissures.
- Anti-corrosive coating to steel/ re-bar with cement.
- Polymer modified mortar overlays/ coating for cementitious surfaces over spill- way, bridge deck, pavement, garage, industrial floor screed and drains.

FEATURES

- Compatible with all kinds of cement.
- Improved strength characteristics of cementitious system allowing thin layer applications.
- Single component, gauged as required.
- Highly waterproof cementitious composite, screeds, plasters and slurries.
- Excellent bonding to concrete.
- Gives weather resistant mortar with improved durability, impermeability to chlorides and other harmful agents.
- Improved tensile and flexural strength of cement layers/ mortars.
- Resilient and yet tough hardened cementitious film or mortar.
- It is resistant to hydrolysis and can therefore be used for external applications.

RECOMMENDATION MIXING CHART

Application Area	VURA SBR+	Water	Cement	Sand	Aggregates
Waterproofing coating	1	4	8		
Bonding Coat	1	4	8		
Polymer mortar/ plaster	1	4	10	40	
Masonary jointing	1	4	10	60	
Crack filling	1	4	1	3 (Fine Sand/Marble)	
Polymer concrete & screed	1	4	1	1.5	3

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APPLICATION METHOD

SURFACE PREPARATION

The surface must be sound clean and free from oil, grease or other contaminants. Any loose materials, rust scale, dirt, laitance, etc shall be removed by suitable means and surface roughened by light scrabbling or grit blasting. For areas affected by corrosion, any exposed reinforcement shall be treated with suitable systems. The surfaces should be ideally in Surface Saturated Dry (SSD) before application.

APPLICATIONS

WATERPROOFING COATING

Prepare slurry coat as indicated in the consumption table. During mixing, care should be taken to add cement into **VURA SBR+** slowly to achieve required consistency and mix for 2-3 minutes to avoid any air entrapment. Apply the waterproofing slurry on the SSD surface with a brush. The second coat may be applied after 5 to 6 hours at right angles. Simple moist curing can be done after 10 hrs. For larger areas, glass fabric may be laid as a sandwich layer between the two coats. Protect the freshly laid surface from rain and heavy sun for 3-5 days so that rapid drying of coating is prevented by using wet gunny bags. Do not pond with water. The waterproofing coating should be protected with plaster / screed 12-15 mm thick with desired slope to prevent film from getting damaged during subsequent activities.

BONDING AID / COAT

Prepare bonding coat as indicated in the consumption table for bonding old to new concrete/ mortar, mix by volume and apply on the prepared substrate. Ensure to place the fresh repair mortar/ concrete while the bond coat is still tacky.

POLYMER MORTAR OR WATERPROOF PLASTER

Prepare the polymer mortar as indicated in the consumption table. Apply a thin layer of bonding coat as given above. Apply the mortar onto the surface in a layer of 20-30 mm thickness. This type of polymer mortar should be used for all repair jobs for optimum performance. Cured plaster with SBR would harden plaster and would be watertight. For highre thickness, apply in multiple layers at intervals of 12 hours.

MASONARY JOINTING

Prepare the jointing mortar as indicated in the consumption table. Apply a thin layer of bonding coat as given above. Apply the mortar onto the surface in a layer of 20–25 mm thickness and shape the adhesive soon after the placement of next level masonry.

CRACK FILLING

Open the crack lines to form a V groove of 8–10 mm. Prepare the crack filler as mentioned in the consumption table to make a putty by using marble dust (preferable) or pasty mortar with find sand. Apply a thin layer of bonding coat as given above and seal the cracks with prepared putty.

POLYMER CONCRETE AND SCREED

VURA SBR+ can be mixed in proportion as mentioned in the consumption table. Make a polymer concrete or screed as per desired consistency required. Apply a thin layer of bonding coat as given above. Place the concrete or screed using suitable tools using standard industry practice.

PRECAUTIONS AND LIMITATIONS

- For waterproofing application, always use atleast 2 coats. In areas severe water penetration, three coats might be required.
- Mixer is recommended for proper **VURA SBR+** mortar mixing. A suitable drum with a paddle mixer having speed of 400-450 rpm would suffice.
- Hand mixing is recommended only for 25 kg or less mixing.

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- Substrate MUST be in SSD condition before application of **VURA SBR+** modified cement mortar/ coating.
- Conduct ponding test after 72 hours (3 days) of application.
- Conduct ponding test up to 50 mm height for 48 hours to ensure water-tightness.
- During hot weather working, add additional water to repair mortar to compensate water loss due to evaporation.
- The cement powder should be mixed into **VURA SBR+**. Do not do vice versa as mixing may not be proper and lump formation may occur.
- Protect freshly applied material from rain etc.

The mixer should be charged with cement, sand and aggregates for 1-2 minutes before addition of **VURA SBR+** dispensed in pre- weighed water. After proper mixing for 2-3 minutes to prevent air entrapment, add remaining water to achieve desired consistency.

TECHNICAL DATA

@ 23°-25°C and R.H. 50%

PARAMETERS	TEST RESULTS
Appearance	SBR Latex Milky White Polymer
Density	1.01 - 1.03 g/cc
Solid content (%)	43 ± 2
pH value	7-9
Bond Strength	> 3.5 N/mm^2
Tensile Adhesion strength on concrete	> 0.5 N/mm^2
Compressive Strength - 28 Days	> 20 N/mm^2
Chemical Resistance	Resists mild acids, alkalis, chlorine, sulphates
Resistance to water penetration	Passed with no penetration

Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition and testing machine etc. Actual field performance will depend on installation methods and site condition.

COVERAGE

- As bonding Agent: Approximately 50-60 square feet per kg for Single coat
- Coverage depends on the type of use / application skills, mixing ratio and nature of substrate.

PACKAGING

1 Kg bottle (1 kg x 8 nos. in a box)
5 Kg can (5 kg x 2 nos. in a box)
20 Kg Bucket
(Bigger packing sizes are available on request)

SHELF LIFE

15 months from the date of production. Store in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight. Protect from frost.

HEALTH AND SAFETY

Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.

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OTHER INFORMATION

Should you need support or advice, please consult our advisory service for architects and craftsman on the contact information you will find on the local VURA website.

Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of at 23°C-25°C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions, hardening can be accelerated or delayed and that the product itself is subject to local conditions.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.

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