

Technical Data Sheet

<p>In Compliance With EN norms</p>	<p>Walnut Zeorich SBR is a unique Eco-friendly polymer liquid based on high quality synthetic rubbers to provide excellent compressive & flexural strength, high adhesion to cement surfaces when used as slurry coat and also act as water resistance coating for wet areas. It can be added to all type of cement mortar and concrete as replacement of water in part or full. The mortar or concrete prepared with Zeorich SBR are flowable, non-shrink, crack resistance and require limited curing. Most suitable for industrial floors, plasters & screed, bond coat for concrete & as water resistance coating for wet areas. Suitable for Internal & external.</p>
<p>Main application Zeorich SBR is a high quality admix for cement concrete, plasters and other cement mix to increase compressive & flexural strength significantly. It can also be applied as slurry bond coat for old cement surfaces and can act as waterproofing slurry in wet areas.</p>	

Technical advantage of Walnut Zeorich SBR

- A Ready to use high concentrate latex in place of water for all cement mortar and concrete.
- Guaranteed increase in compressive & sheer strength of > 50 % of cement mix when used pure.
- Using Zeorich SBR ensures that concrete and mortar are fully compact and doesnot leave voids within.
- Very high increase in flexural strength and reduction in elastic modules of cement mortar or concrete.
- An excellent patching compound when used with cement: sand to plug the hollow areas in concrete or plaster.
- When used alongwith Zeorich screed, provide excellent results and fully dry within 24 hours.
- Highly suitable solution for fixing tiles or stone on wet screed made with Zeorich SBR.
- When used alongwith Zeorich screed, more than 80 mm. of thickness can be applied in single go.
- Provide excellent adhesion on old cement substrate when used as slurry bond coat.
- Provide very good waterproof properties when used in wet areas as slurry coat.
- No moisture rising on wall compare to traditional mortar / screed on floor.
- No water curing needed if fully replaced with water in paster or screed.
- Highly suitable to use for industrial floor, public infrastructure projects or in swimming pool & wet areas.
- No shrinkage in base screed, plaster or other mortar once fully dry.
- Very low VOC (Low Volatile Organic Compound) and suitable for green building point.

Suitable areas

- Internal & external floor & walls.
- Residential & commercial buildings.
- Industrial facilities.
- Public infrastructure such as airports, railways etc.
- Fully wet areas including swimming pool, water tank, bathroom, etc.

Suitable surfaces

- Stable new or old concrete.
- New or old IPS or PCC floors which are sound and stable.
- Cement based dry walls of stable nature.
- Industrial concrete floors of all type such as VDF or Tremix floor.

Suitable covering material when used as admix for floor screed or for plaster

- All kind of ceramic & vitrified tiles with Walnut suitable adhesive.
- All kind of natural or recomposed stone with Walnut suitable adhesive.
- All kind of other covering such as cement based self levelling, epoxy or PU coatings, wood flooring & carpet etc.

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Product not to be used

- On floors which are deformable or not sound.
- On floors which are having extreme movement.
- On floors which are not stable and structurally sound.
- On surface which are non-cement based.
- As a primer bond coat without cement between old and new cement surface.

How to Use



Important tools for application:

Suitable mortar or concrete mixer.

Levelling bar

Auto spirit level OR laser level.

Other mixing & finishing tools such as trowel, bucket, brush, broom, measuring tape etc.

Cleaning of tools:

While still the material is fresh, all the tools can be cleaned with normal water. Once material is hardened, the material can be removed only by mechanical means.

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Mixing Ratio:

Application area	Mixing Ratio
Using as slurry bond coat on concrete :	1:1:2 by weight (Zeorich SBR: Water: Cement)
Using as Waterproofing Slurry :	1:1 by weight (Zeorich SBR: Cement)
Using as admix with concrete or mortar :	1:1 till 1:2 with water
Using as admix with Zeorich Screed :	1:1 till 1:4 with water
Using as patching compound :	No dilution. Without water
Using as Primer on cement base dry wall :	No dilution. Without water.

Surface Preparation:

- Ensure that concrete, plaster, dry wall or any other cement surface is sound, strong, clean and free from all foreign material such as oil, grease, dust etc.
- When using Zeorich SBR as slurry or primer coat on cement based dry surfaces or in external temperature, splash sufficient water to reduce the shock and surface temperature. Let surface dry and then start application. In normal course too, splash the water to regulate the surface absorption.
- Expansion joint in concrete must be respected.

Mixing:

- When used in pure form, Zeorich SBR directly can be mixed with concrete, screed or plaster as replacement of water.
- When dilution is needed, take clean water and mix Zeorich SBR in desire ratio as suggested and keep the liquid mix ready for further uses as per desire application mentioned below.

How to apply:

A.) Application as a slurry bond coat:

- Dilute Zeorich SBR by volume or weight 1:1 with clean water and mix well. Once liquid mix is ready, add 2 part or more of cement by total weight of liquid to make brush applied slurry.
- Apply slurry bond coat with brush or broom and spread evenly in thickness of approx. 1 mm.
- Once slurry is applied and still fresh, spread the concrete, screed or mortar onto it and level the surface.

B.) Application as a waterproof slurry:

- Take pure Zeorich SBR in desire quantity and add 1.5 time by weight of cement or Zeorich Base binder to make brush applied slurry.
- Apply 1st coat from left to right direction evenly in thickness of approx. 1 mm. Let 1st coat dry.
- Apply 2nd coat from top to bottom direction in thickness of approx. 1 mm. Total 2 coat must be minimum of 2 mm. thickness. Let final coat dry before protection or further covering on top.

C.) Application as a admix with concrete, Zeorich Screed or plaster:

- Take 20 to 40% of Zeorich SBR by weight of cement used in concrete, screed or mortar OR prepare liquid mix made of Zeorich SBR : water in the ratio of 1:1 or more. Dilution of Zeorich SBR is depends on improvement require in final strength.
- Prepare mix of screed, concrete, mortar or plaster in desire ratio. Add Zeorich SBR liquid mix as per requirement and as replacement of water.
- Mix concrete or mortar in electric concrete mixer and apply the same as per desire thickness needed.
- Follow the protection and cure as per local guidelines and technical requirement.

D.) Application as a patching / repair compound:

- Clean the surface of patching area and remove all the dust. Open the patch / crack wide enough for mortar to go till full depth. Splash the water on patch and let it dry.
- Take pure Zeorich SBR in desire quantity and mix with Cement: washed sand (1:2 by weight) to make plaster consistency mix. Apply the mix onto the whole patching area till full depth. Press firmly the mortar and finish the surface. If area is directly under sun, cover the same for first 24 hours or cure with water.

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E.) Application as a primer on cement based dry wall surface:

- Clean the surface of dry wall with water & sponge. Let it dry.
- Pour Zeorich SBR in clean plastic container without any dilution.
- Apply the product enough to wet the total surface area with brush or roller.
- Apply the plaster, mortar or any other product while primer coat is still fresh and touch dry.

Product & Working Data

Product appearance	: White or off-white liquid.
Packing	: 1 5 & 20 Lt. drum.
Shelf life	: 12 months from the date of manufacturing.
Mixing Ratio:	
As slurry bond coat	: 1:1 (Zeorich SBR: water and equal cement or Zeorich Base binder)
As waterproofing slurry	: 1: 1.5 (Zeorich SBR: Cement or Zeorich Base Binder).
As an admix to concrete, mortar & screed	: 1:1 to 1:4 (Zeorich SBR: Water). Based on strength needed.
As primer bond coat	: No dilution.
Coverages:	
Coverage as slurry bond coat	: Approx. 27 to 30 sft. / kg. of Zeorich SBR liquid.
Coverage as waterproofing coat	: Approx. 35 sft. / kg. of Zeorich SBR liquid per coat.
Coverage as primer bond coat	: Approx. 15 to 20 sft. / Kg. of Zeorich SBR liquid.
Doses for concrete, mortar & screed	: 20 to 40% by weight of cement used in concrete or mortar.
Coverage as a patching repair compound	: As per depth, width & dimension of cavity / patch.
Working temperature	: + 5° C. to + 35° C.

Technical Performances

In compliance with European norms EN 13892

Final results of Zeorich SBR when used for floor screed in comparison with water:

Zeorich Binder: Basalt sand (Mixing Ratio)	Compressive Strength (mixed with water)	Compressive Strength (mixed with Zeorich SBR : Water (1:1))
1:3 by weight	35 N / mm ²	> 45 Mpa.
1:4 by weight	28 N / mm ²	> 40 Mpa.
1:6 by weight	20 N / mm ²	> 30 Mpa.
(Data @ 23* C. & 50% humidity)		

Please note that similar results may be achieved as mentioned above when Zeorich SBR is used alongwith ordinary plaster, floor screed, concrete mix or any other similar mortar. For best results Zeorich SBR can be used without any dilution with water.

• Final resistance to temperature after 28 days or full cure: - 30 to + 90 * C.

Walnut exclusive technology



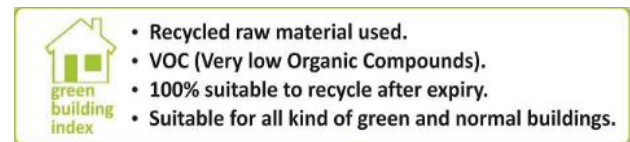
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Important instructions

- Once container is open, entire material must be consumed within 24 hours. Store the container in safe environment. Shake well before use.
- In case of very weak surface, please ensure that proper strength or correction are done before start using.
- If temperature is more than 35° C., than avoid using the products under direct sun.
- In case temperature is cold and below 5° C., the initial and final setting may affect.
- Expansion & connection joint must be followed of concrete and all other elements of concrete structure.
- For any structure related issue, follow local code and appropriate consultant guidelines.
- In case the performance of Walnut products is not as per technical data mentioned, please call Walnut technical helpline.

Walnut Green Building Index

Walnut range of products are most eco-friendly and suitable to use in all kind of buildings including certified green. Apart from using best of international raw material for best performance, Walnut procure the major raw material locally to safeguard environment.



Walnut Quality & Safety Assurance

Products supplied are safe to use by any worker at site. However proper tools and safety measures must be in place for prolong working. The gloves, safety glasses and other protection measure must be followed as per local regulation.



Declaration

All the above information and results are provided based on Walnut internal quality test. Customer must check before using the product about performance and final expected results. Walnut cannot be held responsible for any damage of whatsoever nature at site.

Technical Help

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