

Apex chem sbr Mortar and screed modifier cum bonding agent

Uses:

For modifying and improving bonding of floor toppings, renderings and mortars; repair of worn, damaged and spalled concrete, repair of large cracks; polymer modified floor screeds; waterproof plasters for masonry and slurries.

Advantages:

- **Simple to use** - Single component, gauged as required.
- **High adhesion** - Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- **Improves durability** - Gives weather resistant mortar with improved impermeability to chlorides and other harmful agents.
- **Reduces permeability** - Provides waterproof screeds, plasters and permeability slurries.
- **Increases strength** - Improved tensile and flexural properties allow thin applications.
- **Versatile** - Compatible with all common hydraulic cements.
- **Cost effective** - APEXBUILD SBR is economical to use

Description: APEXBUILD SBR is modified styrene butadiene rubber emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications too.

Properties:

- Specific gravity 1.02 to 1.03 g/cc
- Typical mechanical properties of 1:3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing APEXBUILD SBR (5 liters / 50 kg cement). Tested in accordance with BS 6319 & wet cured.

Mechanical properties	Control	APEXBUILD SBR
3 days	11.5	12.5
7 days	13.0	14.5
28 days	22.0	24.0
Tensile strength		
(N/mm ²) @ 28 days	2.5	3.5
Flexural strength		
(N/mm ²) @ 28 days	5.0	6.5

Note: Increased dosages of APEXBUILD SBR and further water reduction leads to improved mechanical properties.

• **Chemical resistance:** Cementitious based materials have limited chemical resistance. The addition of APEXBUILD SBR to cement mortars reduces permeability and therefore helps reduce the rate of attack by aggressive chemicals.

Application instructions:

Surface Preparation: The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and

any other deleterious substances. Laitance should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit blasting to provide an adequate key. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferably to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

Priming: Reinforcing steel must be primed with APEXBUILD Primer immediately after cleaning. The concrete substrate should be thoroughly dampened with water and any excess water removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume APEXBUILD SBR to 1 volume water to 3 volumes fresh cement. In order to obtain a smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement. Avoid 'puddling' of the slurry coat. The topping must be applied on to the wet slurry. If the slurry dries out it must be removed and the clean substrate reprimed

Typical Mix designs:

1. Patching and repair mortars and plaster for masonry

Cement	50 kg
Zone II sand	150 kg
APEXBUILD SBR	5 - 9 liters
Recommended water addition	11 - 15 liters
Recommended thickness	8 to 30mm]

2. Heavy duty floor screeds

Cement	50 kg
3-6mm Granite chips	75 kg
Zone II sand	75 kg
APEXBUILD SBR	5-9 liters
Recommended water addition	8-12 liters
Recommended thickness	10-25mm

Cleaning: Tools and equipment should be washed with water immediately after use.

Estimating

Packaging: APEXBUILD SBR is supplied in 125ml, 500 ml, 1, 5, 10 and 20 liter containers.

Coverage: Slurry primer - approximately 4- 5 m²/ liter depending on substrate porosity.

Storage

Shelf life: APEXBUILD SBR has a shelf life of 12 months if kept in a dry store in unopened condition.

Precautions

Health & Safety instructions

APEXBUILD SBR should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn during handling the product. If contact with skin occurs, wash well with soap and water. Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately - Do not induce vomiting.

Fire: APEXBUILD SBR is non-flammable.

