

HOMESURE wSHIELD SBR 30 (SUPER BONDING REPAIR LATEX CHAMPION 30)

Multifunctional Styrene Butadiene Rubber Latex for Waterproofing, Bonding & Repairing

Walplast Homesure wShield SBR 30 (Super Bonding Repair Latex Champion 30) is a single component Styrene Butadiene Rubber co-polymer-based product which is used in mortar and concrete as an admixture & bonding agent to increase its water resistance, durability and waterproofing characteristics. It is stable under wet alkaline conditions forming a reinforcing polymer matrix within cementitious mixes.

INDICATIVE TECHNICAL DETAILS

Nature	: White colour liquid
Non-volatile content	: 30 ± 2
pH	: 8 – 10
Specific gravity @ 27°C	: 1.02 – 1.09
Setting time (Initial)	: 24 hours
Initial curing time	: 72 Hours (with moist curing)
Full curing time	: 28 days (under water immersion)
Flammability	: Non-flammable

FEATURES AND BENEFITS

Superior Bonding Properties: Ensures strong adhesion between old and new concrete surfaces.

Enhanced Water Resistance: Reduces permeability and enhances waterproofing capabilities.

Crack Prevention: Minimizes shrinkage cracks in cementitious applications.

Abrasion & Chemical Resistance: Improves surface durability and resistance to aggressive environments.

High Flexibility & Toughness: Enhances tensile strength and flexibility of repair mortars.

Corrosion Protection: Provides a protective layer against chloride and sulfate attacks.

Non-Flammable & Eco-Friendly: Safe for application in confined areas with low VOC content.

COVERAGE

1 kg wSHIELD SBR 30 will cover approx. 18-22 sq. Ft in 2 coat system depending upon the surface.

APPLICATION AREAS

Bonding agent for old to new concrete

Structural concrete repairs (beams, columns, slabs, foundations)

Waterproofing coatings (roofs, basements, swimming pools, tunnels)

Plaster & mortar modification to improve strength and workability

Tile fixing & grouting applications

Industrial flooring & protective coatings for concrete surfaces

GUIDANCE FOR USE

SURFACE PREPARATION:

- ✓ Prior to application of wShield SBR 30, all surfaces must be prepared properly to avoid failure.
- ✓ Ensure that surface is cleaned, free from dirt, soil, oil release agents, laitance and any other foreign materials which may impair the bond, penetration and / or the overall performance.
- ✓ Remove chemically any efflorescence, oil, mould etc.
- ✓ Ensure to fill cracks / honeycombs / holes / faulty construction joints with mortar made of wShield SBR 30, cement and super fine sand in the ratio 1 : 2 : 3 and allow it to touch dry.
- ✓ Pre-wet / dampen all prepared concrete surface before application. Remove any excess of water prior to application

BONDING AGENT:

- Prime the prepared surface using a slurry coat of 1-part wShield SBR 30 to 3 parts water.
- Apply a bonding slurry (1 kg wShield SBR 30 : 2 kg Cement) in a tacky condition before overlaying with fresh concrete or mortar.
- For enhanced adhesion, a 15-20% water dilution may be used to achieve a brushable consistency.

TILE FIXING & GROUTING:

- Mix 1 part wShield SBR 30 with cementitious tile adhesive or grout to enhance strength and adhesion.

WATERPROOF COATING:

- Mix SBR 30: Cement in the ratio 1:1.5 by weight.
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to wShield SBR 30 until the required consistency is achieved.
- Brush 2 coats of the mix in a span of 4-6 hours on the prepared concrete substrate.
- Overlay the coating with a protective screed to the desired slope & thickness
- After 6 hrs of air drying the coated surface should be cured by means of spraying water for next 24 hr. Do not leave coated surface dry during this period. Do not allow the coated surface to be submerged under water during this period.
- Allow to dry for 24 hrs after moist curing. Do not apply water through a hose or pressurized nozzle.
- As a waterproofing coating, consumption of latex will be about 2-2.5 m² /ltr in 2 coats depending on the porosity of the substrate.

REPAIR MORTAR:

- Mix ratio for repair mortar, wShield SBR 30: Cement : Sand is 1:2:6
- Before mortar application, apply bond coat with a mixing ratio of 1:3, wShield SBR 30: water.
- Apply repair mortar in specified area & finish it with steel trowel or any other standard method.
- Keep the surface moist for 12 - 24 hour after the application of repair mortar.
- Consumption of wShield SBR 30 for repair mortar 6.5 kg per 50kg of cement bag.

CLEANING:

Clean tools and equipment with water before the material hardens.

PACKAGING

1kg, 5 kg, 10 kg, 20 kg, pails, 50 kg & 200 kg barrels

PRECAUTIONS

- ☑ Recommended dosage to be followed to achieve desired results.
- ☑ When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable.
- ☑ When using as a waterproofing coating, apply on a saturated surface-dry cementitious substrate
- ☑ Reinforcement rods and other sharp materials should not be dragged over the waterproofing membrane, as this can puncture the same.
- ☑ Waterproofing system must be applied between temperature 10 - 35° C.

SHELF LIFE & STORAGE INSTRUCTIONS

- 18 months from the date of manufacturing when stored in unopened, original sealed & dry condition at a temperature from +5°C to 40°C
- Store in dry and well-ventilated place away from heat source or direct sunlight.
- Avoid using partially used material; open drums with partially used material should be kept in a drum with its mouth closed.

HEALTH & SAFETY INFORMATION

- ★ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.
- ★ Use rubber hand gloves & safety goggles, while using product
- ★ Avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water.
- ★ Ensure adequate ventilation and avoid inhalation of vapour
- ★ Spillages of wShield SBR 30 can be removed with water. Do not use solvent to clean the contacted area.
- ★ Keep out of reach of children.