



PLASTERBOND SBR

ISSUE DATE: PSBR / 0302

**EXCELLENT ADHESION TO
ALL SURFACE TYPES**

**WATERPROOFING ADMIXTURE
FOR CEMENT BASED MIXES**

**PRIMER & BONDING AGENT
FOR POROUS SUBSTRATES**

DESCRIPTION:

PLASTERBOND SBR is a styrene butadiene co-polymer emulsion for use as a primer; bonding agent and admixture to cement-based mixes to improve water-resistance, adhesion strength and long-term durability. It is a safe to use and can be applied to a wide range of building materials in applications where contact with water is likely. PLASTERBOND SBR can be used as a water-proof bonding agent when mixed as a slurry with neat cement and can readily be incorporated into mixes of sand cement screeds, plasters and renders, giving a water reducing and plasticising effect, as well as improving wet-tack and adhesion of the render to the existing base masonry. PLASTERBOND SBR is an excellent primer for porous surfaces such as gypsum plaster, old / worn concrete; sand cement screeds and render by reducing porosity, surface dusting and improving initial tack so that subsequently applied adhesives, renders or screeds can achieve a secure and lasting key with the base substrate.

PLASTERBOND SBR AS A BONDING AGENT:

PLASTERBOND can be used as a bonding agent when over-laying existing masonry with a fresh coat of render, plaster, concrete or screed, or when applying cement based tile adhesives to difficult, non-porous surfaces such as existing floor tiles. Wet down the exposed surface so that it is damp but not holding standing water. PLASTERBOND SBR can be mixed to a brushable slurry consistency using a mechanical agitator by adding approximately 1 part SBR to 1 part neat cement and 0.5 parts of coarse sand to be spread out using a stiff brush, evenly and consistently over the surface. Application of the topping screed or adhesive should proceed before the bonding slurry has dried out. PLASTERBOND SBR bonding slurry can also be used to coat and protect steel reinforcement and as a waterproof tanking slurry when applied as a three-coat treatment to prepared masonry.

PLASTERBOND SBR AS A CONCRETE / MORTAR ADMIXTURE:

When repairing concrete floors, steps or applying vertical renders, PLASTERBOND SBR should be mixed at the minimum rate of 5 litres per 50 kg of Ordinary Portland Cement, or adding up to 15 litres where heavy traffic or loads are expected. Mix designs for repair mortars are ideally 1 part OPC to 3 parts zone 3 washed dried sand. When laying thick-section screeds (25 to 50mm) replace 1 part sand with 1 part 6mm dried coarse aggregate and always add just sufficient water to give the mix the required consistency for ease of application. PLASTERBOND SBR imparts a strong water-reducing and plasticising effect in concrete and mortar, thus giving improved strength, shrink resistance, long term durability, abrasion resistance and reduced water permeability.

PLASTERBOND SBR AS A PRIMER / SEALER:

On porous, worn or dusty concrete floors, PLASTERBOND SBR diluted as 1 part to 3 parts with water and brushed on as a generous single coat, can seal the surface, reduce suction and inhibit further dusting. One coat is normally sufficient for priming surfaces ready to receive an application of SELF-LEVELLING COMPOUND or FLOOR TILE ADHESIVE, however very porous and friable surfaces may require two coats to be effective, particularly where no further coating is to be laid.

On gypsum plaster, or porous cement render walls PLASTERBOND SBR, diluted as 1 part to 4 parts with water, is sufficient preparation to reduce suction, bind the surface and give a consistent substrate, primed for the application of a ready mixed tile adhesive. Plaster walls which have been over-finished to a polished appearance should be slightly roughened with a stiff brush and wiped clear of loose fines before priming.

Timber ply-boards and panels should be clean and free from dust and loose flaking material before being primed with PLASTERBOND SBR diluted as 1 part to 1 part water, then brushed across the surface to be tile to give an even, well spread coverage. Exposed faces and edges of the timber not receiving tiles may also be sealed with this primer solution to prevent moisture ingress causing deformation of the boards. Tile Adhesive may be applied to the primed surface whilst it is still slightly damp and tacky to touch.

COVERAGE:

The consumption of PLASTERBOND SBR for any particular application depends heavily upon the texture and porosity of the surface it is applied to and the figures shown below are intended as a rough guide only.

ADMIXTURE:	BONDING SLURRY:	PRIMER / SEALER:
5 to 15 litres per 50kg of OPC.	3 - 5 square metres per litre.	Up to 20 square metres per litre.

STORAGE & PACKAGING:

PLASTERBOND SBR is supplied either as a 25 litre, 5 litre, 2.5 litre or 1 litre bottle of latex and has a storage life of not less than 12 months if stored in dry, un-opened conditions. Consult the PLASTERBOND SBR material safety data sheet for advice on handling and safety procedures. Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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SUBSTANCE IDENTIFICATION:

PLASTERBOND SBR

CEMENT ADMIXTURE & BONDING AGENT

COMPOSITION;

An aqueous dispersion of a micro-particle sized Styrene Butadiene copolymer emulsion.

HAZARDS CLASSIFICATION:

NON-HAZARDOUS
Not subject to statutory hazard labelling in accordance with the CHIP regulations.

FIRST AID MEASURES:

INHALATION:

Avoid working in a spray mist. If inhaled, clear out mouth with clean water and seek medical attention. If irritation or breathing difficulties persist, seek medical attention.

SKIN CONTACT:

Wash off skin with warm soapy water. The product will not cause immediate irritation, but prolonged and unattended contact with the concentrate should be avoided.

INGESTION:

Clean out mouth with copious volumes of water. Do not induce vomiting. Seek prompt medical attention and show this data sheet.

EYE CONTACT:

Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

FIRE FIGHTING MEASURES:

NOT APPLICABLE - This product is a NON-FLAMMABLE water based dispersion

ACCIDENTAL RELEASE MEASURES:

Absorb spillages on sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for low-hazard aqueous emulsions. Provide plenty of ventilation if spillage occurs within a confined room or area.

HANDLING & STORAGE:

Store in sealed, clearly marked containers either as a concentrate or in its diluted form. Keep out of reach of children in a cool well-ventilated environment – Protect from frost, heat and direct sunlight. Keep in sealed plastic containers to prolong product life.

EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT:

Wear overalls and rubber/PVC gloves. When mixing with cement based systems PVC overalls should be worn in association with side sealed goggles (BS 2092). Always read and follow the precautions shown on the label. Notify persons in the vicinity of any treatment as to when access will be restricted. All treated areas should be kept free from unprotected persons and animals whilst application is in progress and until surfaces are dry.

SAFETY DATA SHEET No. 03

PRODUCT: PLASTERBOND SBR

PHYSICO-CHEMICAL PROPERTIES:

Appearance – Milky white liquid.
Miscibility – Water only
Ph – 8.5 – 9.5
Density – 1.05
Odour – Distinctive ammonia type smell.
Viscosity - < 200cps.
Exposed product will readily dry to form a tacky film, which becomes clear.

STABILITY & REACTIVITY:

Storage in frost affected conditions or at elevated temperatures will affect the performance stability of the product, and lead to separation of the emulsion. However there are no known adverse/unsafe reactions should this product be inadvertently contaminated, although the product will be adversely affected by Strong acids.

TOXICOLOGICAL INFORMATION:

LD50 (oral rat) – 2000mg/kg for aqueous styrene based emulsions on rats.
May cause irritation of the upper digestive tract and mouth should ingestion occur.

ECOLOGICAL INFORMATION:

The product is only sparingly biodegradable and is toxic to aquatic organisms.
Ecotoxicity – Acute fish toxicity – LC50-48hrs fish > 1000mg/Kg.
Slowly Biodegradable in both fresh and salt water.

DISPOSAL CONSIDERATIONS:

Dispose according to Local Authority regulations for aqueous, low hazard emulsion based building chemicals.

TRANSPORT INFORMATION:

Not subject to CPL / ADR restrictions
When transporting overseas, classify as IMO Class 3.3 – Marine pollutant.

REGULATORY INFORMATION:

Irritating if swallowed. Wear suitable protective clothing. Do not dispose into ponds or watercourses
The use of this product at work will be subject to an assessment in accordance with the 1994 COSHH regulations.

FURTHER INFORMATION:

The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work.