



**SBR**  
BONDING AGENT

**ACS SBR is a highly advanced, combined waterproofer, adhesive and plasticiser for cement mortars**

**\*waterproofing \*bonding screeds to concrete \*making good over steel reinforcement  
\*enables thin sections to be applied \*heavy duty flooring**

#### **DESCRIPTION**

**ACS SBR** is a highly advanced polymer latex emulsion designed as an admixture and adhesive for cement mortars. It is a combined waterproofer, adhesive and plasticiser which enables cement mortars to be laid in thin, jointless sections. **ACS SBR** reduces water permeability, provides additional chemical resistance as well as increasing flexibility and strength.

The use of **ACS SBR** improves the adhesion and cohesion of a mix resulting in easier application, compaction and finishing with minimal segregation and bleeding. These improved characteristics of cement mixes are retained in wet conditions, consequently the material is particularly recommended in mixes where water resistance is required.

The superb adhesive qualities of **ACS SBR** enables superimposed toppings to be bonded 'monolithically' onto existing concrete, without the necessity of 'hacking' or 'scabbing', providing any weak laitence is removed. By incorporating **ACS SBR** in cement mortar, the many varied applications can be increased to include bedding kerbs, coping stones, mosaics, tiles, making good structural concrete over bare steel reinforcements. When **ACS SBR** is incorporated in the mix, the water/cement ratio must be reduced, resulting in a reduction of drying shrinkage.

#### **USES**

##### **WATERPROOFING**

Providing water-resistant renderings and linings for basements, swimming pools and other water retaining structures.

##### **BONDING**

Bedding kerbs, coping stones, mosaics and tiles. Bonding screeds to concrete and render to concrete.

##### **FLOORING**

Patching damaged screeds and concrete prone to heavy traffic. Floor screeds incorporating **ACS SBR** possess increased strengths and chemical resistance with minimal dusting. Heavy duty floorings, such as granolithic, can be bonded perfectly to cured concrete.

##### **CONCRETE REPAIRS**

Cement mortars based upon **ACS SBR** can be used for making good structural concrete where steel reinforcement is exposed.

#### **PREPARATION**

Before application, all surfaces must be clean and free from any extraneous matter such as dust, dirt, grease, laitence and loose or flaking paint. Remove all loose and friable concrete to achieve a sound base. Surfaces may be damp but there must be no excess water present.

## **MIXING** **SLURRY**

The prepared concrete should be damped down with water, with the surplus removed. A slurry comprising 1 part **ACS SBR** and 1 part fresh cement should be well scrubbed into the concrete. The subsequent topping or render must be applied to the slurry **whilst wet**. **If the first slurry coat dries, a second must be applied.**

## **WATERPROOF RENDERINGS**

Thoroughly prepare the substrate, as outlined above, and apply **two slurry coats**, each comprising 1 part **ACS SBR** and 1 part fresh cement. When the first coat is dry, (i.e. after 20-30 minutes), the second coat should be applied at right-angles to ensure complete coverage. These slurry coats **must then be allowed to dry for a period of at least 48 hours**. Then apply a further coat of slurry and **whilst wet**, apply the following mix:

**10 litres ACS SBR 50 kg fresh O P Cement 150 kg clean sharp sand (Zone 2)**

Add water as required, but keeping it to a minimum. The resultant mix should be applied as a thin 6mm layer. Normally one coat is sufficient but, if necessary, a second similar layer can be applied after 30 minutes - dependent upon ambient temperature, site conditions, etc. When rendering on dense concrete, damp the surface and brush-apply a coat of 1:1 sand/cement gauged with **ACS SBR**. Allow to dry and render as normal.

Where water resistance is not required, simply apply a render based upon a 3:1 sand/cement mix to the wet slurry.

## **BONDING SCREEDS AND SUPERIMPOSED TOPPING TO CURED SLABS**

Thoroughly prepare the substrate, as outlined above. Damp down the surface and apply a slurry coat of 1 part (by volume) **ACS SBR** and 1 part fresh cement. *Whilst the slurry is wet* apply the topping or screed in the normal manner.

## **FLOORING**

Thoroughly prepare the substrate as outlined above. Damp down the surface and apply slurry as previously described. **Whilst the slurry is wet**, apply a mix of - 10 litres ACS SBR, 50kg fresh OPC, 125-150 Grade M, washed sharp sand. Add water as required but to a minimum.

Where a heavy duty flooring is required the following procedure will apply. Prepare the substrate and apply slurry as previously described. **Whilst the slurry is wet**, apply the following mix : 10 litres ACS SBR, 50 kg fresh OPC, 62.5 kg Grade M washed, sharp sand, 62.5 kg 3-6mm granite chippings free from dust and water as required but to a minimum.

## **HEALTH AND SAFETY**

Refer to product safety data sheet (SDS) before use.

Information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that products, techniques and codes of practice are under constant review and changes occur without notice. please ensure you have the latest updated information.



Advanced Chemical Specialties Limited  
Unit 9, Bofors Park, Artillery Road,  
Yeovil, Somerset BA22 8YH. UK  
Technical Sales ☎:(+44) 01935 414012  
Fax 📠 (+44) 01935 414022  
✉ info@acslimited.co.uk  
🌐 www.acslimited.co.uk

June 2010