



## PRODUCT DATA: ChemStar EKOSORB PR-C™

### PRODUCT DESCRIPTION

ChemStar EKOSORB PR-C™ is a single component, ready to use, high performance sacrificial coating for protecting concrete, masonry and other porous surfaces against graffiti paints. As a model construction product, it is safe to use, carbon free and kind to the natural environment. It works by preventing paint from penetrating porous surfaces and at the same time allowing the building envelope to breathe. It is durable against inclement weathering and gives lasting protection together with significant water-proofing. In the event of the surface becoming polluted with graffiti paints, the offending paint is readily removed together with sacrificial coating. Re-treatment is both economical and straightforward. The coating, which does not change the appearance of the surface, is suitable for all common building materials, especially porous materials such as concrete, sand-lime bricks, mortar, general masonry, sandstone, artificial stone, render, plaster, granite and marble.

### PRODUCT APPLICATION

ChemStar EKOSORB PR-C™ is applied undiluted to the dry surface, building up the coating wet upon wet. The achievable dosage rate will depend mainly on the porosity and water moisture content of the surface to be protected. For optimum treatment, it is recommended that trials be undertaken on a small test area. ChemStar EKOSORB PR-C™ can be applied using low pressure spray equipment, roller or brush. Where possible, for the best outcome in terms of ease of subsequent graffiti removal, surfaces should be treated before graffiti has been applied. Surfaces already contaminated with graffiti paints can be cleaned using ChemStar EKOSORB EX-A™ or ChemStar EKOSORB EX-B™ prior to protective treatment. The product should not be applied at temperatures lower than +5°C or greater than +30°C. A hot pressure water jet can be used to remove the coating when it becomes contaminated with graffiti paints. A typical hot jet system delivering clean hot water at about 90°C and 20 bars (2 MPa) pressure would be suitable for this purpose. Faster removal rate can obviously be expected with equipment that exceeds this specification.

### DOSAGE RATES

The achievable dosage rate (kg/m<sup>2</sup>) will depend on the porosity (sorptivity) of the surface to be protected and the level of moisture content. Sorptivity, the ability of a surface to absorb water, can be measured using the ISAT test (Initial Surface Absorption Test) or similar non-destructive testing methods. However, such equipment requires skill and understanding for correct operation and interpretation and should only be used by competent persons. A practical approach to determining the operational dosage is to define a test area and determine the application rate to the point of refusal. This should be done by continuing wet upon wet applications until the point of refusal or, in the case of extremely porous surfaces, the maximum dosage of 0.5 kg/m<sup>2</sup> is achieved. There is no added benefit in exceeding the maximum recommended dosage of 0.5 kg/m<sup>2</sup>. The minimum recommended dosage for effective protection, which would apply to typical dense concrete surfaces, is 0.15 kg/m<sup>2</sup>. Our technical advisers can be consulted regarding any dosage issue.



## PHYSICAL PROPERTIES

The principal physical properties of ChemStar EKOSORB PR-C™ are summarised below:

Colour	Milky white
Principal constituents	Polymers & wax
Density	1000 kg/m <sup>3</sup>
Consistency	Low viscosity liquid
Combustibility	No-combustible
Permeability	Vapour permeable
Lowest application temperature	+5°C
Minimum dosage	0.15 kg/m <sup>2</sup>
Maximum dosage	0.50 kg/m <sup>2</sup>
Shelf life	12 Months

## STORAGE & TRANSPORTATION

Store and transport the product in its original container. To keep the product in good condition the storage and transportation temperature should be within the +5°C to +30°C range.

## POT LIFE

Provided the container is kept closed whilst not in use and at a temperature within the recommended storage temperature, the pot life is similar to the storage life.

## PACKAGING & WASTE

ChemStar EKOSORB PR-C™ is normally supplied in 5kg or 10kg recyclable containers. Waste disposal advice is available on request.

## SAFETY ISSUES

ChemStar EKOSORB PR-C™ is a low hazard product for both users and the natural environment. Please refer to the Material Safety Data Sheet for this product.

## CERTIFIED TRAINING

Approved applicators are required to undertake training in the application of the product.