



## TECHNICAL NOTE

### **DEEP PENETRATING SEALER (DPS) FOR USE ON CONCRETE FLOORS AND WALLS**

The durability of concrete floors can be greatly enhanced by the application of two coats of DPS to the floor surface.

The DPS will improve sand/cement floor screeds, plain concrete floor slabs and granolithic toppings. If concrete floors are not cured with water, damp hessian or plastic sheeting within an hour of casting, the resulting water loss from the surface will result in incomplete hydration of the cement. This results in continuous dusting of the floor surface during its use.

The DPS can be sprayed on the surface immediately after casting where it will enhance the curing of the concrete. Alternatively it can be applied at any time after completion of the curing where it will stop the concrete surface from dusting. The application of the DPS will also harden the floor surface, thereby increasing its strength and also giving increased abrasion resistance.

It is particularly suitable for the application to industrial floors, stairs, and carparks where its waterproof qualities also help to prevent the ingress of water, oils and aggressive chemicals into the surface.

DPS is also useful in preventing capillary rise of water in a concrete screed or slab, which has been covered in vinyl floor tiles or epoxy or polyurethane coatings.

Where floor screeds are covered with tiles before the screed has dried out sufficiently, the water in the screed will rise to the slab surface beneath the tiles causing mould and dampness, which will deteriorate the adhesive, causing the tiles to debond or float. DPS will prevent this occurring and its use will also enable the tiles to be laid earlier than if it had not been applied.

Where epoxy acrylic or polyurethane coatings are applied to damp concrete floors the capillary rise of water will cause the coatings to blister, crack and peel. This can be prevented by the initial application of DPS to the surface before the coatings are applied.



## **APPLICATION**

1. We would recommend two applications of DPS to the screed or plain concrete surface.
2. The surface must be clean and free from dust, oils and grease before the DPS is applied. If the surface is dirty, first clean the surface with Deep Clean 250.
3. Pre-wet the cleaned concrete surface first then apply DPS. The DPS can best be applied by low-pressure spray but it can also be applied by brush or mop.
4. Work across the entire surface ensuring complete coverage. If patches of the concrete are very permeable and the material soaks in rapidly, respray the affected areas.
5. Wait approximately 24 hours before applying the second coat. No need to pre-wet the concrete surface before the second coat.
6. DPS will greatly improve the waterproof quality of your floors, walls and soffit surfaces as well as its strength and abrasion resistance. All types of concrete floor can be greatly improved by the simple application of DPS.
7. If the surface needs to be painted or tiles, allow at least 3-4 days for the DPS to fully cure. If any contaminants float to the surface, wash off before application of paint, tiles or any other coatings.