



# TECHNICAL DATA SHEET

## PAINTING CONCRETE WITH POLYURETHANE FLOOR PAINT

<b>Reference</b> PFPCF	<b>Revision No</b> 1	<b>Revision Date</b> 19 October 1996	<b>Printed</b> 28 October 2008	<b>Page 1 of 2</b>
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### Properties and Uses

Untreated concrete gives rise to dusty conditions.

R.J.Stokes & Company Limited have developed a paint based on Polyurethane modified alkyd resins which are specifically designed for use on concrete floors.

These paints possess good film forming properties, low water vapour permeability, hard wearing characteristics and good chemical resistance.

Best results will be obtained on surfaces which have not been either painted or treated with any other composition. Before attempting to paint new concrete floors first establish that the moisture content is below 14%, (this can be checked using a Protimeter). If paint is applied when the moisture content is above 14% it is possible that the paint film will become detached from the substrate because of the effect of hydrostatic pressure being developed as the concrete dries out. This phenomenon can also occur with concrete floors which have been laid down for some years if the membrane / water barrier under the concrete floor has been damaged or not laid properly in the first place. If the moisture content of concrete is above 14% we do NOT recommend that the concrete is painted because of the possible failure of the adhesion to the substrate.

### Processes

**UNTREATED CONCRETE** - Sweep off any dust or other dry material before painting.

**1ST COAT** - Dilute Stokes Polyurethane Floor, (Not Anti-Slip Quality) approximately 7 parts by volume with 3 parts by volume of Stokes Thinner TH010. Apply an even coat of this blend by either brush or roller (preferably not a foam type roller) so as to both thoroughly wet and bind any pores of the concrete. This coat of paint both seals and stabilises the substrate. Allow the first coat to dry for at least 24 hours before attempting to apply the second coat. Ensure that the area to be painted is well ventilated, this will assist with the speed of drying of the paint.

**2ND COAT** - The second coat of this paint should be applied unthinned. However, if necessary to ease application a small quantity of Stokes Thinner TH010 may be added. Allow the paint to dry for 24 hours before putting into service. On rough surfaces two finishing coats might be needed to achieve a solid finish. Note:- This paint will only follow the contours of the concrete, it will not level an uneven floor. Stokes Anti-slip Polyurethane Floor Paint may be used as the second coat but only thin slightly if necessary to ease application and ensure that the paint is mixed thoroughly before use and also during application so that the texture effect is uniform.

**PREVIOUSLY PAINTED SURFACES** - Stokes Polyurethane Floor Paint or Anti-slip quality may be applied satisfactorily over old existing paint, providing it is hard and in good condition. Some paints, however, may lift or be softened when the system is applied and it is advisable to check this by small scale trials. If the tests show the old paint is not satisfactory or if it is in generally poor condition, strip the floor and treat as bare concrete as described under Unpainted Concrete (see above). If the old paint is satisfactory, clean and abrade the surface thoroughly in the normal way.

If the previous paint is based on Bitumen a degree of bleeding will occur. To overcome this problem it will be necessary to coat it with a coat of a spirit based paint such as Stokes Spirit based Roadline Paint REF. RL. see data on this product for handling instructions etc. Should the concrete have been coated with any preparations to either seal the surface to reduce dust levels or any other type of composition, trials must be carried out to confirm that the Polyurethane Paint will adhere properly to this pretreatment.

**HEAVILY CONTAMINATED FLOORS** - Polyurethane Paint will not adhere satisfactorily to heavy deposits of grease and oils etc. Under these conditions it will be necessary to mechanically abrade the floor to remove the excess contamination. Floors which are contaminated with oil, grease etc MUST be cleaned before attempting to apply paint. This can be carried out using a concrete floor plane, which should remove the contamination. The use of solvents is not recommended to remove the grease or paint etc. as the tendency will be to spread these contaminants rather than remove them.

**OLD OR POWER FLOATED FINISHED CONCRETE** - When painting over old or power floated finished concrete it may be necessary to carry out a trial to establish the suitability of the floor to accept the paint system. If after conducting trials there is any doubt above the adhesion of the paint to the concrete it may be necessary to prepare the surface with a concrete floor plane or similar machine and then ensure that any dust resulting from this pre-treatment is removed before painting and then follow the procedure for painting new concrete.

THESE NOTES NEED TO BE READ IN CONJUNCTION WITH THE SHEETS FOR STOKES POLYURETHANE PAINT OR STOKES ANTI-SLIP POLYURETHANE PAINT.



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### Disclaimer

The above information is for guidance only. It is given in good faith but without warranty. Users should first carry out their own trials to ascertain the suitability of the product for their intended purpose.

This Data Sheet supercedes all previous Data Sheets supplied to you relating to this product. It contains important information which must be communicated to the user. The user must satisfy himself of the suitability of the product for the intended application and surface, as surface and application conditions are beyond the control of R.J.Stokes & Co Ltd. The user must also satisfy himself of the suitability of the product in circumstances other than those set out in this data sheet. The user should also maintain appropriate control procedures. Should further information be required, please contact our Technical Department.

R.J.Stokes & Co. Ltd. employ a policy of continuous development and the technical data could be revised as a result of experience or new information becoming available.