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TECHNICALDATASHEET

UPS 703 XF Fast Curing Floor Coating

Two Component Solvent Free Fast Drying Coating

UPS 703 XF is a high performance solvent free system specifically developed for use as a high build fast curing floor coating.

UPS 703 XF is formulated on a complex blend of high molecular weight polymers, which produces a system with outstanding flexibility, impact resistance and colour stability. This unique resin system is combined with a special blend of pigments enabling a select range of colours to be offered suitable for the long term protection of industrial floors.

UPS 703 XF has excellent adhesion to almost any mineral surface in combination with the appropriate primer and is ideal for long term protection of car parks and floors in factories, warehouses, kitchens, dairies , breweries or any area where long term maintenance free protection is required.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All surfaces should be clean, dry and free from loose material. Concrete surfaces should have all surface laitence removed by mechanical means, such as enclosed blasting equipment.

Porous Surfaces: on certain types of good quality concrete **UPS 703 XF** can be applied without a primer, but for optimum cosmetic results concrete should be primed with **UPS 901 CS Sealer.**

Timber and porous asphalt surfaces should be primed with **UPS 903 FB Primer** prior toapplicationof **UPS 703 XF.**

Non Porous Surfaces and Existing Coatings: Please contact the Technical Centre for advice.

If in doubt about the choice of primer consult the **UPS Techni-Cal Department.**

MIXING

UPS 703 XF is a two component material comprising a Base component and an Activator component which must be mixed together prior to use.

The Base component should be stirred and whilst continuing stirring, the Activator component should be added with mixing continuing until a homogeneous mix results. The use of a mechanical mixer is advisable to ensure thorough and complete mixing.

The mixed product must be used within 20 minutes of mixing at 20°C (68°F).

APPLICATION

Application should not be carried out when the surface to be coated is less than 3°C above the dew point.

Note: Whilst there is no restriction on the maximum level of humidity during application, high levels of humidity will increase the rate of cure.

UPS 703 XF may be applied at temperatures down to -10°C (14°F) but cure times will be extended considerably. For optimum speed of cure, application is best carried out when surface/air temperatures are above 5°C (40°F).

UPS 703 XF is suitable for application by brush or medium pile rollers, using a pour and roll technique and should be applied to give a uniform thickness of 150-200 microns, higher thicknessess will retard the cure. When using a pour and roll technique the mixed material should be poured across the appropriate areas to be covered then rolled out to the correct thickness, large pools of mixed product should be avoided.

UPS 703 XF may be applied as a single coat or two coat system depending on client requirements. Where a slip deterrent finish is required, **UPS W.D. Grip** should be scattered over the coating at an approximate rate of 100-150gm/m² and back rolled in.

Note: If a two coat system is being applied, the aggregate should be incorporated into the second coat.

TheoreticalCoverageRate
5 m² / litre at 200 microns dft (43 ft² per litre at 10 mils dft)

Recommended Film Thickness
Wet/Dry 150-200microns(6-8mils)

Detailed working recommendations are available from the Thortex Technical Centre on request.

PHYSICAL CONSTANTS

MixingRatio
Colours
1.5 parts base to 1 part activator by volume.
Clear
1.35 parts base to 1 part activator by volume

Appearance
Base Thixotropic Liquid
Activator ClearLiquid

Drying & Cure Times at 20°C (68°F)

Usable Life	20-25minutes
Touch Dry	¾-1 hour
Hard Dry	1-1½ hours
Minimum Overcoating	1 hours
MaximumOvercoating	24 hours
Full Cure	7 Days

Volume Solids 100%

V.O.C. Nil

Shelf Life Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

PHYSICAL PROPERTIES

Abrasion Resistance ASTMD4060	78 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
Hardness ASTMD2240	75-80 Shore D
Elongation ASTM D412	15-20%
Direct Pull Adhesion ASTMD4541	35 kg/cm² (500 psi) - Concrete (Concrete Failure)
Tensile Strength ASTM D638	22.6N/mm²(3300psi)
Tear Strength ASTM D624	95.7N/mm(550psi)
WaterVapour Permeability ASTMD1653	$5.46x10^{-4}$perm

HEALTH AND SAFETY

As long as normal good practice is observed **UPS 703 XF** can be safely used.

The use of protective gloves is advisable during use.

A fully detailed **Material Safety Data Sheet** is either included wit the material or is available on request.

PACKAGING

Supplied in 2.5 litre packs(colours) and 2.35 litre packs (clear)

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