

FEATURES

Advantages:

- Fast cure at normal temperatures
- Rapid Dry-to-Recoat
- Excellent solvent and chemical resistance
- Low VOC / High solids
- Versatile - Can be applied directly to suitably prepared steel, galvanised steel or concrete
- Self priming
- Tintable to a wide range of colours
- Safe - All colours lead and chrome free
- Can be topcoated with all E~Line[®] coatings and Chem-Bar 900[™]
- Available with **Ultra-Fresh Antimicrobial Additive** where hygienic germ-free coating systems are required

Performance Data:

- Salt Spray Resistance (Cyclic Prohesion Testing) 2500 hours - Excellent
- Immersion Resistance (5% Salt Solution) 2500 hours - Excellent
- Chemical Resistance (ASTM D1308, 24 hour contact) - Excellent.
Resists 35% Sodium Hydroxide, 10% Ammonia, 10% Hydrochloric Acid, 10% Sulphuric Acid, 5% Sodium Hypochlorite, Petrol, Ethanol, Motor Oil, Xylene, MEK, Ethylene Glycol

Approvals:

- MAF - Meat, Game and Seafood
- AS 4020 - Potable Water - White, Black & Haze Grey only. (Tanks ≥ 3000 litres - refer Altex Coatings)

RECOMMENDED USES

Altra~Shield 2000[®] is a high performance, multi-purpose high build epoxy coating available in a wide range of tinted colours. Pre-mix standard colours may be used in immersion service and high wear service such as flooring.

Altra~Shield 2000[®] is recommended for use:

- On general structural steel where an economical and aesthetic high performance finish is required.
- In industrial environments where good chemical resistance is required, such as
 - Pulp and Paper Plants
 - Sewage and Waste Plants
 - Fertiliser Works
 - Power Generation Plants
 - Food Processing Plants
- As a Tank Lining
 - Ballast tanks, bilges and other water containment structures
 - Potable water tanks
 - Cargo, chemical and fuel tanks - contact Altex Coatings for details
- On concrete floors in service areas such as workshops and factories - refer to "Darker Colour" notes, "Limitations of Use".
- As a coloured intermediate coating under all E~Line finishes.

Limitations of Use:

- Tinted colours not suitable for immersion and may have reduced resistance to chemicals and solvents
- Darker colours will scratch/abrade to a lighter colour so should be avoided on *critical decorative* surfaces such as showroom floors.
- Will chalk on exposure to sunlight and some colours may also yellow. This will not impair protective qualities
- Cure is slowed down at temperatures below 10°C

SPECIFICATION DATA

Coating Type:	Polyamide Epoxy
Standard Colours:	White & Haze Grey (Tinted Colours also available)
Packaging:	1.25*, 5 and 10 litre Two component kits (Non-Skid version - 6 litre Two component kit) * Standard colours only
Mix Ratio:	4 to 1 by volume (Non-Skid version - 2 to 1 by volume)
Gloss:	Low Sheen
Flash Point:	27°C
Thinner:	1/2 Thinner (For potable water tanks use Carboline Thinner No.10 or X-100)
Pot Life:	4 hours at 25°C
Induction Time:	Summer - Not required Winter - 15 minutes
Storage:	Store under cool, dry conditions

Density:	1.85 kg per litre
VOC:	211 grams per mixed litre
Temperature Resistance:	120°C Dry
Theoretical Volume Solids (Mixed):	75%
Theoretical Coverage Rate:	5 sq metres per litre at 150 microns dry
Non-Skid Theoretical Coverage Rate:	1.5 - 2.5 sq. metres per litre depending on desired texture and quality of substrate.
Recommended Film Thickness Per Coat:	150 - 200 microns dry
Application:	Spray, brush or roller
Dry Times (150 µm DFT / 50% RH):	
	10°C 15°C 25°C
Touch Dry	9 Hrs 6 Hrs 3 Hrs
Hard Dry	15 Hrs 9 Hrs 4.5 Hrs
Minimum Recoat	8 Hrs 5 Hrs 4 Hrs

Maximum Recoat *Dependant on topcoat to be used. Refer specification data or consult Altex Coatings.*

SURFACE PREPARATION

All surfaces must be sound and free of oil, grease, dirt, form release agents, curing compounds, loose and flaking paint, moisture and other foreign substances prior to application of Altra~Shield 2000®.

Steel Surfaces:

Blast to near white metal, equivalent to SSPC SP10 or SIS Sa 2.5 for immersion service; for non-immersion service blast to SSPC SP6 or SIS Sa2. The steel profile after blasting should be 30 to 50 microns in depth and be of a jagged nature as opposed to a peen pattern.

For areas where abrasive blasting cannot be accomplished, power tool clean to SSPC SP3 or SIS St3.

Altra~Shield 2000® should be applied to the cleaned surfaces as soon as possible to prevent re-rusting or contamination.

Aluminium and Galvanised Surfaces:

Recommended cleaning of surface is light abrasive blasting with fine, washed, non-metallic media to attain a uniform matt finish. Altra~Shield 2000® may be applied directly to prepared galvanised surfaces; for Aluminium substrates, prime the prepared surface with either Altra~Bond 3094® or Carboguard 504.

Concrete and Masonry:

Allow new concrete or masonry to cure for at least 28 days before painting. Roughen smooth or precast surfaces by acid etching or sweep blasting. Prime prepared surfaces with either Carboguard 1340, Altra~Lock 576 or a coat of Altra~Shield 2000®, thinned 30% with 1/2 Thinner, before applying a full coat of Altra~Shield 2000®.

DIRECTIONS FOR USE

Tinting:

Altra~Shield 2000® may be tinted to a wide range of colours using the Altex XP colour tint system. Add tinters to the base portion only.

Do not use tinted colours in immersion service or in areas requiring a high level of chemical resistance.

Mixing:

Altra~Shield 2000® is a two component product supplied in 5 and 10 litre kits which contain the correct ratio of ingredients. The entire contents of each container must be mixed together.

Power mix the base portion first to obtain a smooth, homogeneous condition. After mixing the base portion add the converter slowly with continued agitation. During the summer no induction time is required for Altra~Shield 2000®; in winter conditions allow 15 minutes induction time.

The pot life of the mixed material is 4 hours at 25°C. Higher temperatures will reduce the working life of the coating; lower temperatures will increase it.

Thinning:

Thinning may be required. Thin up to 15% with Altex 1/2 Thinner.

For potable water tank usage, thin with Carboline Thinner No.10 or Altex X-100 Thinner.

Application:

Altra~Shield 2000® can be applied by spray, brush or roller. Application by airless or conventional air spray equipment is the preferred method. Altra~Shield 2000® may also be applied to small areas by brush and roller.

Suggested spray equipment is:

Air spray Graco - Delta Air spray gun, 2.8mm (0.110") set up

(Note : Other equipment equivalent to the above may be used.)

Clean-up:

Use 1/2 Thinner

PRECAUTIONS

For industrial use only. See the Altex Coatings Limited General Safety Data Sheet, product label and Material Safety Data Sheet (MSDS) for health and safety information prior to use.

Altra~Shield 2000® is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

ALTEX COATINGS LIMITED

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