



Altra~Shield® 2000

Multi-Purpose Epoxy Coating

Data Sheet

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 pastel 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

RECOMMENDED USES

Altra~Shield® 2000 is a high performance, multi-purpose high build epoxy coating available in a wide range of tinted colours.

Pre-mixed 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
 - On concrete floors in service areas such as workshops and factories –
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
- 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: Tinted Pastel Colours only

Packaging: 5 and 10 litre
Two component kits

Mix Ratio: 4 to 1 by volume

Gloss: Low Sheen

Flash Point: 27°C

Thinner: Thinner #12

Pot Life: 4 hours at 25°C

Induction Time: Summer - Not required
Winter - 15 minutes

Storage: Store in 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

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 #12 Thinner, before applying a full coat of Altra~Shield® 2000.

DIRECTIONS FOR USE

Tinting:

Altra~Shield® 2000 is tinted to a wide range of pastel (light shade) colours.

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 Thinner #12. For brush / roller application, thin with Altex Thinner #25.

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

Airless Spray

Pump Ratio 30:1
Material Hose 3/8" I.D min
Tip Size 0.015 – 0.021

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

Clean-up:

Use Thinner #12

PRECAUTIONS

For industrial use only. Read and follow all the caution statements on this Product Data Sheet, the product label and the Safety Data Sheet (SDS) 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.

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