

ULTRASHIELD EPOXY

100% Solids, Epoxy Coating



MATERIAL DESCRIPTION

UltraShield Epoxy is a 100% solids epoxy floor coating system designed to offer seamless durable floor protection at applied thicknesses between 0.2-0.4mm. With excellent surface hardness and adhesion, UltraShield Epoxy exhibits high water, chemical and oil resistance with the ability to build film thickness. With the addition of anti-slip aggregates, such as Aluminium Oxide, slip resistant applications can be achieved.

AREAS OF APPLICATION

UltraShield Epoxy is suitable for use in a wide variety of industrial, commercial and residential applications. It can be used to provide a high gloss hygienic finish or a slip resistant finish. UltraShield Epoxy can be used in, but is not limited to, the following areas of application:

- Garages and sheds
- · Warehouses with high density traffic
- Multi-level carparks
- · Car production and workshop facilities
- Chemical industries
- Industrial environments
- Showroom and offices
- Pharmaceutical and cosmetic facilities
- Water and sewerage treatment plants
- · Electronic and electrical industries
- Food and drink processing plants

USES

- Concrete protection
- Different flooring applications, i.e.
 - ✓ Solid Colour Epoxy
 - ✓ Flake Coating Systems
 - ✓ Metallic and Liquid Epoxy Marble Floors
- Recoat and maintenance
- Wear resistant coating
- Epoxy mortar binders coving and falls to drains
- Epoxy primer coat

CHARACTERISTICS AND BENEFITS

- Excellent wear and abrasion resistance long term floor protection
- Good chemical resistance can be used for chemical spillage areas
- Easy to clean and maintain
- Shrink free
- Easy application by brush, roller or squeegee enables faster completion
- Excellent levelling capacity when used as skim or scratch coat
- Smooth and glossy finish with wide range of colours – attractive & aesthetically pleasing floors

PROPERTIES

Colour	Range of colours	
Mix ratio (by volume)	(A:B) 3:1	
Mixed density	1.5kg/L	
Application temperature	MIN	MAX
(ambient & substrate)	8°C	Max 35°C
Overcoating Time	12hrs	48hrs
Curing Timos	INITIAL	FULL
Curing Times	24hrs	7 days

CHEMICAL RESISTANCE

UltraShield Epoxy resistance to many common chemicals in spill or splash situations at ambient temperatures. Consult Ultrakote for any specific applications. Some chemicals may cause staining or discolouration, on the surface, from prolonged exposure without impacting the coating's integrity

- Hydrochloric acid (10%)
- Nitric acid (10%)
- Sulfuric acid (40%)
- Uric acid (concentrated)
- Sodium hydroxide (10%)
- Hydrogen peroxide (3%)
- MEK

- SkydrolBrake/Hydraulic Fluid
- Toluene
- Grease
- Organic Food Matter
- Wine
- Diesel
- Motor Oil
- · Hydrocarbon solvents



PREMIUM GRADE PROTECTIVE COATINGS

Kerosene

Pot life

207

APPLICATION

Turpentine

60°C

40N/mm²

20N/mm²

>1.5N/mm²

Approx. 45 minutes

Data is available on request. Exposure based on spill and

Allow new concrete to cure for a minimum of 28 days prior to any coating. Surface must be sound, dry, free from all loose material, laitance, old coatings, dust and surface contaminants (e.g. oil, grease, chemicals, release/curing agents etc). Substrate must be mechanically treated by

abrasive blasting or grinding for mechanical bonding. Oily

surfaces must be degreased and removed. Prior to the

application of UltraShield Epoxy, moisture content in the

concrete must be no greater than 4% pbw. Using a

moisture barrier coat, before any system application, will ensure no rising moisture or dampness will affect the coating. Concrete to be min 25Mpa compressive strength

Pot life will vary depending on the ambient temperature,

Cure time depending on ambient/substrate temperatures. UltraShield Epoxy will cure to a tack free surface within 8

hours at 23°C, is overcoatable after 12 hours (however

not more than 48) and should be protected from

traffic/spillage for at least 36 hours. Full chemical and mechanical resistance is obtained after 7 days @ 23°C.

Approximately 30 Minutes at 20 Degrees

splashes that were cleaned within 24hrs.

PERFORMANCE DATA

Max. service temperature

Flexural strength(ASTM C580)

Tensile strength (ASTM C307)

Laboratory tests carried out at 25°C

Bond strength BS 1881 Part

and 1.5Mpa pull off strength.

quantity mixed and placed.

POT LIFE

CURING

ESTIMATING DATA

Over dense surfaces, the coverage rate is 5m2 per litre per coat. On more porous surfaces or in non-skid textures, typical coverage rate is 4m2 per litre per coat.

UltraShield Epoxy wet film thickness					
L	Thickness	m ³	Pails	m²/mm	
	in mm/m ²		/m ³	thickness	
20	20mm	(0.02)	50	20 m ²	

PACKAGING

UltraShield Epoxy is supplied in 8L and 16L pigmented and unpigmented kits comprising:

8L	8L +	16L	16L +
Pretinted	Pigment	Pretinted	Pigment
6L Part A	5.5L Part A	12L Part A	11L Part A
2L Part B	2L Part B	4L Part B	4L Part B
	0.5L		1L Pigment
	Pigment		

NOTE: Where Dark, light or vibrant colours, (Black/white or Red/Yellow etc.) are required, the addition of extra colour packs are advised to ensure opacity. A third coat is also recommended UltraShield Epoxy may change in appearance when exposed to UV light.

CLEANING

Use thinners to clean equipment and tools before the material hardens. Cured material can only be removed mechanically.

SHELF LIFE

UltraShield Epoxy can be stored in tightly closed original containers for 12 months in controlled environments.

PRECAUTIONS

For the full health and safety hazard information, make sure that you obtain a copy of the Material Safety Data Sheet (MSDS) from our office or website.

VERIFIED DISTRIBUTORS OF ULTRAKOTE

Sydney Industrial Coatings

LEGAL This data sheet is to provide information on the product based on current knowledge. It does not constitute a guarantee and we recommend that testing should be undertaken to ensure that the final result is satisfactory for the intended application. The quality of the product is guaranteed under our General Conditions of Sale.

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Vinyl Flakes Australia