HD FLOOR + WALL EW99

A high performance two pack water based smooth epoxy floor and wall coating

Recommended Areas of Use

Interior concrete, wood or steel floors requiring a tough, quick drying, hard wearing flexible floor coating with good chemical and excellent water resistance. Can be used with Bradite Low Slip Additive LS30 to provide additional under foot traction (see Notes section for more details).

Certificates & Approvals

Manufactured under the auspices of ISO 9001:2015 quality & ISO 14001:2015 environmental management systems.
2004/42/EC EU limit value for this product (cat.A/b wb): 100g/l (2010). This product contains max.2 g/l VOC.
BS 476 Part 6 & 7: Fire propagation index, I; 2.5, Surface spread of flame; Class 1, Building Regulations 1991, "Fire Safety", Document B [para. A12(b)]: Class 0.

Properties

Gloss	Full (> 75%)	**Surface dry**	3 hours
Theoretical Coverage	13 m²/L/coat	**Minimum over coating time**	14 hours minimum
Recommended number of coats	2 full coats (on bare absorbent surfaces, apply a 20% thinned priming coat first).	**Maximum over coating time**	Unlimited (after preparation)
Density	1.18 kg/L	**Minimum application conditions**	Temperature > 10°C, RH < 65% (but must be 3°C above dew point)
Volume solids	57% (mixed)	**Time to light traffic**	24 hours minimum, after final coat
Flash point (Abel closed cup)	>99°C	**Full cure**	6 days
VOC	<2 g/L	**Shelf life**	12 months minimum in original unopened containers.
Thinner / Cleaning	Water	**Colour range**	Bradite Floor Paint Colours, RAL, British Standard & Clear
Pot Life	1 hour	**Mix Ratio**	Base & Activator tins are supplied pre-measured. For part mixing use: 2:1 (v/v) or 100:44 pbw
Recommended wet film thickness	100 microns/coat	**Recommended dry film thickness**	57 microns/coat

Suitable Surfaces

For internal steel, wood, concrete and other absorbent mineral substrates which are dry, free of contamination, dust, efflorescence and have been properly prepared and primed. Compatibility with existing coatings should be confirmed by preparing and painting a test patch. [Note, not suitable for applying over asphalt, bitumen, epoxy tar, alkyd, chlorinated rubber or vinyl based paints.]

Application Information

Thin first coat on new or uncoated concrete, wood or plaster by 20-30% to enable penetration and binding of substrate. Application and use should always conform to the codes of practice described in BS 6150 and BS 5493.

Brush and Roller – Supplied ready for use. Thin, if required, with 0 - 5% water. On smooth substrates, the use of a short pile roller is advised.

Conventional Air Spraying - Thin with 10 - 20% clean water as required, tip size - 2.0mm, tip pressure 60psi (0.4MPa) approximately.

Airless Spraying - Thin with 0-15% clean water as required, tip size - 18 thou (0.46mm) approximately, tip pressure - 2100 psi (15MPa) approximately.

Cleaning

Clean all equipment immediately after use with water for best results.

Specification

New Building, Total Repair and Maintenance systems using two pack epoxy coating, Bradite HD Floor and Wall EW99.

Floor Preparation

Substrates should be dust free and completely dry before coating. When painting concrete it is vital to ensure that the substrate is completely dry and free of laitance. Power floated, shiny or unpainted non porous concrete floors should be thoroughly vacuum blast cleaned to a roughness profile of 30-50 microns, or acid etched using Bradite TA37. Please consult the product data sheet for more details.

High pressure water cleaning should be utilised to remove all loose and flaking paint and contamination back to a sound substrate. Bradite TD39 industrial strength detergent should be used if necessary to remove all grease and oil.

Intact areas of existing coatings should be roughened by abrasive manual or disc rubbing and feathered back to a sound coating edge. Cracks and pits should be filled using a suitable screed or mortar before painting. Substrate should be dust free and completely dry before coating.

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Painting System

For application on concrete, wood or other absorbent substrates, the first coat should be thinned 10-20% with water to allow penetration into the substrate.

1st coat	Bradite HD Floor + Wall EW99 (thinned)
2nd coat	Bradite HD Floor + Wall EW99
3rd coat	Bradite HD Floor + Wall EW99

For maintenance painting the 1st coat will be a touch up to bare areas.

Wall Preparation - New building Or Total Repair

When painting new plaster it is vital to ensure the substrate is fully cured and free of laitance.

Cracks and pits should be filled using a suitable filler before painting. Remove all loose and flaking paint back to a sound substrate. High gloss coatings should be abraded to provide a mechanical key. Substrate should be dust free and completely dry before coating. Bradite TD39 industrial strength detergent should be used with scrubbing, washing and rinsing to remove grease or oil.

Painting System

For application on plaster or other absorbent substrates, the first coat should be thinned 10-20% with water to allow penetration into the substrate.

1st coat	Bradite HD Floor + Wall EW99	(thinned)
2nd coat	Bradite HD Floor + Wall EW99	
3rd coat	Bradite HD Floor + Wall EW99	

For maintenance painting the 1st coat will be a touch up to bare areas.

Notes

Bradite HD Floor & Wall EW99 is suitable for use with Bradite Low Slip Additive LS30, which can be incorporated into the paint:

- Incorporation

Bradite Low Slip Hard Aggregate LS30 should be added to the paint and mixed thoroughly just before use at a rate of 1 x 250ml LS30 tin (400g) per 5 litre of paint.

The end user and applicator must ensure that the finished floor is safe against slips in all likely usage conditions.

Risk of Slip	PTV
High	0-24
Moderate	25-35
Low	36+

Sample	Test	Temperature	Average Pendulum Test Value		Risk of Slip	
	Direction		Dry	Wet/Water	Dry	Wet
EW99	0°	23°C	48.3	21.7	Low	High
EW99 + 10% Low Slip Additive	0°	23°C	58.3	31.7	Low	Moderate
EW99 + 20% Low Slip Additive	0°	23°C	63.3	50.0	Low	Low
EW99 + 30% Low Slip Additive	0°	23°C	68.3	55.0	Low	Low

Industrial Protective Coating Preparation

High pressure steam cleaning to remove all loose, flaking paint and contamination back to a sound surface. Bradite TD39 industrial strength detergent, washing and rinsing should be used with scrubbing to remove grease or oil.

For new or total repair, steel should be blast cleaned to SIS Sa 2½ minimum with a blast profile of 35-50 microns. (For maintenance repair, sweep blast or mechanically abrade existing coating to provide a key. Damaged or rusty areas should be blast cleaned to SIS Sa 2½ or mechanically to SIS St 3 minimum).

1st coat	Bradite HD Floor + Wall EW99 (thinned)
2nd coat	Bradite HD Floor + Wall EW99
3rd coat	Bradite HD Floor + Wall EW99

For maintenance painting the 1st coat will be a touch up to bare areas only.

Notes

This system is recommended for internal protection and decoration only. Epoxy systems will chalk on external exposure to sunlight, resulting in loss of gloss and colour fade.

Summary Safety Information

Always refer to the Health and Safety sheet for the product before use, and observe the warning phrases on the label.