



# HD FLOOR + WALL EW99

## A high performance two pack water based 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 Additives SA14 or SA12 to provide additional under foot traction (see Notes section for more details).

### Certificates & Approvals

Manufactured under the auspices of an ISO 9001:2008 quality & ISO 14001:2004 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

|                                       |  |                                       |   |
|---------------------------------------|--|---------------------------------------|---|
| <b>Gloss</b>                          | Full (> 75%)   | <b>Surface dry</b>                    | 3 hours   |
| <b>Theoretical Coverage</b>           | 13 m <sup>2</sup> /L/coat  | <b>Minimum over coating time</b>      | 14 hours minimum  |
| <b>Recommended number of coats</b>    | 2 full coats (on bare absorbent surfaces, apply a 20% thinned priming coat first). | <b>Maximum over coating time</b>      | Unlimited (after preparation)   |
| <b>Density</b>                        | 1.18 kg/L  | <b>Minimum application conditions</b> | Temperature > 10°C, RH < 65% (but must be 3 °C above dew point)                               |
| <b>Volume solids</b>                  | 57% (mixed)  | <b>Time to light traffic</b>          | 24 hours minimum, after final coat  |
| <b>Flash point (Abel closed cup)</b>  | >99°C  | <b>Full cure</b>                      | 6 days  |
| <b>VOC</b>                            | <2 g/L   | <b>Shelf life</b>                     | 12 months minimum in original unopened containers.  |
| <b>Thinner / Cleaning</b>             | Water  | <b>Colour range</b>                   | Bradite Floor Paint Colours, RAL, British Standard & Clear                                    |
| <b>Pot Life</b>                       | 1 hour   | <b>Mix Ratio</b>                      | Base & Activator tins are supplied pre-measured. For part mixing use: 2:1 (v/v) or 100:44 pbw |
| <b>Recommended wet film thickness</b> | 100 microns/coat   | <b>Recommended dry film thickness</b> | 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, or primed using Bradite Floor Primer ES40. 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 [If Bradite Floor Primer ES40 has been used then the priming coat of Bradite HD Floor and Wall should be omitted].

|          |  |
|----------|--|
| 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 1<sup>st</sup> 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.

|                      |                              |           |
|----------------------|------------------------------|-----------|
| 1 <sup>st</sup> coat | Bradite HD Floor + Wall EW99 | (thinned) |
| 2 <sup>nd</sup> coat | Bradite HD Floor + Wall EW99 |           |
| 3 <sup>rd</sup> coat | Bradite HD Floor + Wall EW99 |           |

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

## Notes

Bradite HD Floor & Wall EW99 is suitable for use with Bradite Low Slip Additives SA14 or SA12, which can be either incorporated into the paint or hand broadcast into the applied wet paint:

- Incorporation

Bradite Low Slip Hard Aggregate SA14 should be added to the paint and mixed thoroughly just before use at a rate of 1 x 250ml SA14 tin (375g) per 5 litre of paint.

Bradite Low Slip Soft Aggregate SA12 should be added to the paint and mixed thoroughly just before use at a rate of 1 x 250ml SA12 tin (110g) per 5 litre of paint.

- Hand Broadcast

Bradite Low Slip Aggregate SA14 should be scattered over the first coat while it is still wet at a rate of 0.5 - 1.0 kg/m<sup>2</sup>. When dry, excess low slip additive should be brushed off before application of the final coat.

Bradite Low Slip Soft Aggregate SA12 should be scattered over the first coat while it is still wet at a rate of 0.2 - 0.5 kg/m<sup>2</sup>. When dry, excess low slip additive should be brushed off before application of the final coat.

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

## 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 2<sup>1/2</sup> 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 2<sup>1/2</sup> or mechanically to SIS St 3 minimum).

|                      |   |
|----------------------|---|
| 1 <sup>st</sup> coat | Bradite Surface Tolerant Epoxy Primer EP92* |
| 2 <sup>nd</sup> coat | Bradite HD Floor + Wall EW99                |
| 3 <sup>rd</sup> coat | Bradite HD Floor + Wall EW99                |

\* Substitute with Bradite Barrier Primer EU96 on galvanised metal, aluminium and other non-ferrous metal surfaces.

For maintenance painting the 1<sup>st</sup> 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.

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