



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

| | | | |
|---------------------------------------|--|---------------------------------------|---|
| Gloss | Full (> 75%) | Surface dry | 3 hours |
| Theoretical Coverage | 13 m ² /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, 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.

Cracks and pits should be filled using a suitable screed or mortar before painting. Substrate should be dust free and completely dry before coating.

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 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.

| | | |
|----------------------|------------------------------|-----------|
| 1 st coat | Bradite HD Floor + Wall EW99 | (thinned) |
| 2 nd coat | Bradite HD Floor + Wall EW99 | |
| 3 rd 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 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/m². 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/m². 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^{1/2} 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^{1/2} or mechanically to SIS St 3 minimum).

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

Disclaimer - The information on this data sheet is correct to the best of our knowledge and experience. Bradite reserves the right to modify data contained herein, without notice. The information supplied does not absolve users from responsibility to carry out their own tests and experiments, nor does it imply any legally binding assurance of certain properties or suitability for any specific purpose. Conditions of service and application may be beyond our control, so no liability whatsoever can be accepted on the basis of the information supplied herein.

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HD FLOOR + WALL

Product code: EW99

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC9a: Coatings and paints, thinners, paint removers.

1.3. Details of the supplier of the safety data sheet

Company name: Bradite Paints
Ogwen Valley Works
Bethesda
Gwynedd
LL57 4YP
United Kingdom

Tel: +44 (0)1248 600315

Fax: +44 (0)1248 602782

Email: sales@bradite.com

1.4. Emergency telephone number

Emergency tel: +44 (0)1248 600315
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317

Most important adverse effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark



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Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of water/soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P321: Specific treatment (see instructions on this label).

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

FORMALDEHYDE, POLYMER WITH N1-(2-AMINOETHYL)-N2-[2-AMINOETHYL)AMINO]ETHYL]-1,2-ETHANEDIAMINE, 2,2'-[1,4-BUTANEDIYLBIS(OXYMETHYLE)

| | | | | |
|---|-------------|---|---|--------|
| - | 180583-06-6 | - | Skin Sens. 1: H317; Aquatic Chronic 2: H411 | 10-30% |
|---|-------------|---|---|--------|

O,O'-BIS(2-AMINOPROPYL)POLYPROPYLENEGLYCOL

| | | | | |
|-----------|-----------|---|--|-------|
| 618-561-0 | 9046-10-0 | - | Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 | 1-10% |
|-----------|-----------|---|--|-------|

3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE

| | | | | |
|-----------|----------|---|--|-------|
| 203-986-2 | 112-57-2 | - | Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411 | 1-10% |
|-----------|----------|---|--|-------|

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

[cont...]

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4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.
Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

Storage quantity limits: N/A

7.3. Specific end use(s)

Specific end use(s): PC9a: Coatings and paints, thinners, paint removers.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

[cont...]

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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Gloves (alkali-resistant).

Eye protection: Tightly fitting safety goggles.

Skin protection: Protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Various

Odour: Barely perceptible odour

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Viscosity: Non-viscous

Boiling point/range°C: >100

Melting point/range°C: Not applicable.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: >93

Part.coeff. n-octanol/water: N/A

Autoflammability°C: Not applicable.

Vapour pressure: Not applicable.

Relative density: 1.21

pH: 8.5

VOC g/l: 3

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight.

[cont...]

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10.5. Incompatible materials

Materials to avoid: Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE

| | | | | |
|-----|-----|------|------|-------|
| IPR | RAT | LD50 | 205 | mg/kg |
| IVN | MUS | LD50 | 320 | mg/kg |
| ORL | RAT | LD50 | 3990 | mg/kg |

Relevant hazards for product:

| Hazard | Route | Basis |
|--------------------------------|-------|-----------------------|
| Skin corrosion/irritation | DRM | Hazardous: calculated |
| Serious eye damage/irritation | OPT | Hazardous: calculated |
| Respiratory/skin sensitisation | DRM | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

[cont...]

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12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Waste code number: 08 01 12

Disposal of packaging: Retain for recovery.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

[cont...]

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and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.