



FLOOR PAINT DP5

A high performance single pack polyurethane alkyd floor coating

Recommended Areas of Use

Interior concrete, wood or steel floors requiring an economical, 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/I sb): 500g/l (2010). This product contains max.435 g/l

Properties

Gloss	Semi-gloss (approx. 50%)	Surface dry	2 hours
Theoretical Coverage	10 m ² /L/coat	Minimum overcoating time	16 hours minimum
Recommended number of coats	2 full coats on bare absorbent surfaces, apply a 20% thinned priming coat first).	Maximum overcoating time	Unlimited
Density	0.98 kg/L	Minimum application conditions	Down to 10 °C (but must be 3 °C above dew point)
Volume solids	45%	Time to light traffic	24 hours minimum, after final coat
Flash point (Abel closed cup)	38 °C	Full cure	7 days
VOC	435 g/L	Shelf life	12 months minimum in original unopened containers.
Thinner / Cleaning	Bradite Thinner TW35	Colour range	Bradite Floor Paint Colours, RAL, British Standard
Recommended wet film thickness	100 microns/coat	Recommended dry film thickness	45 microns/coat

Suitable Surfaces

For internal steel, wood, concrete and other absorbent mineral substrates which are dry, free of contamination, dust, efflorescence laitance and have been properly prepared and primed. Certain protected external floor surfaces may be suitable (well above local water table and/or an intact DPM barrier present) Compatibility with existing coatings should be confirmed by preparing and painting a test patch. [Note, not suitable for applying over asphalt, bitumen, epoxy tar, or vinyl based paints.]

Application Information

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% Bradite Thinner TW35.

Conventional Air Spraying - Thin with 10 - 20% Bradite Thinner TW35 as required, tip size - 2.0mm, tip pressure 60psi (0.4MPa) approximately.

Airless Spraying - Thin with 0 - 15% Bradite Thinner TW35 as required, tip size - 18 thou (0.46mm) approximately, tip pressure - 2100 psi (15MPa) approximately.

Cleaning

Clean all equipment immediately after use with Bradite Thinner TW35 for best results.

Specification

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.

Painting System

For application on concrete, wood or other absorbent substrates, the first coat should be thinned 15-20% with Bradite Thinner TW35 to allow penetration into the substrate.

1st coat	Bradite Floor Paint DP5 (thinned)
2nd coat	Bradite Floor Paint DP5
3rd coat	Bradite Floor Paint DP5

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

While the floor will take light foot traffic after overnight drying, full cure may take 4 days at 20°C and should not be subject to heavy traffic for at least 48 hours. Please note that drying/curing times will vary depending on film thickness, temperature and relative humidity.

Bradite Floor Paint DP5 is suitable for use in domestic and light commercial garages. In the first seven days after application, vehicles should be left outside to allow tyres to cool down (especially after long journeys) to help prevent hot tyre pick up. Spills of petrol and diesel should be cleaned up as soon as possible to reduce the danger of slip and to prevent discolouration of the floor paint. Brake fluid is highly aggressive and will attack most floor paints on contact – use drip/capture pans when working on brake systems to prevent permanent damage to the floor paint finish.

Notes

Bradite Floor Paint DP5 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.

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: FLOOR PAINT

Product code: DP5

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: Flam. Liq. 3: H226; Asp. Tox. 1: H304; -: EUH208

Most important adverse effects: Contains 2-butanone oxime, cobalt bis(2-ethylhexanoate). May produce an allergic reaction. Flammable liquid and vapour. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains 2-butanone oxime, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS08: Health hazard

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Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241: Use explosion-proof electrical/ventilating/lighting/.. equipment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P331: Do NOT induce vomiting.

2.3. Other hazards

Other hazards: Not applicable.

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY - REACH registered number(s): 01-2119463258-33-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
265-150-3	64742-48-9	-	Asp. Tox. 1: H304; Flam. Liq. 3: H226	30-50%

2-BUTANONE OXIME - REACH registered number(s): 01-2119539477-28-XXXX

202-496-6	96-29-7	-	Carc. 2: H351; Acute Tox. 4: H312; Eye Dam. 1: H318; Skin Sens. 1: H317	<1%
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ZIRCONIUM BIS(2-ETHYLHEXANOATE) - REACH registered number(s): 01-2119979088-21

245-018-1	22464-99-9	-	Repr. 2: H361d	<1%
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COBALT BIS(2-ETHYLHEXANOATE) - REACH registered number(s): 01-2119524678-29-XXXX

205-250-6	136-52-7	-	Skin Sens. 1: H317; Aquatic Acute 1: H400	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

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

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

Ingestion: Wash out mouth with water. Consult a doctor.

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

[cont...]

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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 irritation of the throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

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

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: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Do not use water.

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. 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: Smoking is forbidden. 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. Keep away from sources of ignition.

Suitable packaging: Must only be kept in original packaging.

Storage quantity limits: 250 L

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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

Hazardous ingredients:

LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	150 ppm	-	-	-

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: Protective gloves.

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: Characteristic odour

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Boiling point/range°C: 149 - 213

Melting point/range°C: N/A

Flammability limits %: lower: 0.6

upper: 6

Flash point°C: 43

Part.coeff. n-octanol/water: 5 - 6.7 (log Pow)

Autoflammability°C: 250

Vapour pressure: 300 Pa @20 deg C

Relative density: 1.21

pH: Not applicable.

VOC g/l: 435

[cont...]

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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: Sources of ignition. Flames. Heat. Hot surfaces.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases. 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:

LOW BOILING POINT HYDROGEN TREATED NAPHTHA - NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg
VAPOURS	RAT	4H LC50	>5000	mg/l

2-BUTANONE OXIME

ORL	MUS	LD50	1	gm/kg
ORL	RAT	LD50	930	mg/kg
SCU	RAT	LD50	2702	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Aspiration hazard	-	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.

[cont...]

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Ingestion: There may be irritation of the throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

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.

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: Solvent reclamation/regeneration.

Waste code number: 08 01 11

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

14.1. UN number

UN number: UN1263

14.2. UN proper shipping name

Shipping name: PAINT

14.3. Transport hazard class(es)

Transport class: 3

[cont...]

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14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 3

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 453/2010.

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

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361d: Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

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