



## Basement Decks

Deckmaster HFS Product Technical Data  
Deckmaster FCF Product Technical Data  
Deckmaster BPO Product Technical Data  
Deckmaster HFS Material Safety Data  
Deckmaster FCF Material Safety Data  
Deckmaster BPO Material Safety Data



**Product data sheet: Deckmaster HFS Primer**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMPTD130**

A non pigmented all liquid Polyurea system.

### Product description

Deckmaster HFS is a three-component, all liquid, polyurea system specially formulated for surfacing and binding applications.

When cured, Deckmaster HFS has good adhesion to bituminous<sup>‡</sup>, cementitious, wood and metal surfaces and to most aggregates, aggregate chippings or pebbles, including calcined bauxite, granite, limestone, marble, Derbyshire spar, gritstone, basalt, silica sand, rounded pea gravel and Bridport stone. **Deckmaster HFS performs particularly well on concrete surfaces where, as with the other surfaces above, no primer is necessary.**

### Characteristics Advantages

Excellent adhesion to prepared substrates.

Low temperature application 0°C

High compressive strength

High tensile strength

### Product data

#### Appearance/Colours

Deckmaster HFS is normally supplied in Buff

#### Packaging

Part A, 14.10 KG

Part B 2.66 KG

Part C. 3.25 KG

## Storage

Store in cool dry conditions and protect from frost.

## Shelf Life

6 months when stored as recommended in original unopened containers.

## Technical data

### Chemical base

A non pigmented all liquid Polyurea system.

### Composition

The system is supplied as three components:

Part A is a coloured mixture containing hydroxyl-functional materials blended with a special mix of pigments and fillers.

Part B is a slightly milky aqueous dispersion.

Part C is a modified Isocyanate with low viscosity.

### Specific Gravity @ 25°C

Part A, 1.80

Part B, 1.01

Part C, 1.21

### Viscosity @25°C (cps)

Part A, 20,000 CPS MAX

Part B 200 CPS MAX

Part C. 200 CPS MAX

## Coverage

A 20 kg kit should cover 10m<sup>2</sup>

\*Coverage rates and related film build, will in practice, depend upon the porosity and profile of the surface being treated.

## **Mechanical/Physical Properties**

PERFORMANCE OF CURED MATERIAL

HARDNESS SHORE D 75

COMPRESSIVE STRENGTH AT FIRST FAILURE 20 N/mm<sup>2</sup>

COMPRESSIVE STRENGTH AT 40% COMPRESSION 45 N/mm<sup>2</sup>

DEFLECTION AT FAILURE 10%

COMPRESSED CYLINDER (EDGE) BREAK 6 N/mm<sup>2</sup>

COMPRESSED CYLINDER (EDGE) CRACK PROPAGATION 6 N/mm<sup>2</sup>

COMPRESSED CYLINDER (EDGE) DEFLECTION AT BREAK 10%

## **Substrate Preparation**

Before application ensure that surfaces to be coated are firmly fixed, clean dry and free from contaminants, loose material, voids, protrusions and organic growths. The quantities specified particularly for the first coat, are based upon an even surface as per BS 8204 Part1, Table 2 Class SR 1, 2, or 3. The levels of the finished works are determined by the substrata, which will be followed by the system. Water run-off or ponding is neither reduced nor increased by the application. The substrate should have a minimum compressive strength of 25N/mm<sup>2</sup> and a pull-off strength of 1.5N/mm<sup>2</sup> to BS 8204 Part 3. The moisture content should be tested to the BS 8203, Appendix A. The substrate shall be prepared in such a way that it is suitable for a resin system, i.e. there is no bond breaking contamination or any smooth shiny surface patina. Mechanically prepare the substrate using shot blasting, diamond grinding or scarifying equipment.

## **Application Conditions Limitations**

### **Substrate /Ambient Temperature**

0°C min / +30°C max

### **Relative Humidity**

95% r.h. max

### **Dew Point**

The temperature must be at least 3°C above the dew point.

## Application Instructions

### Mixing

The Deckmaster Ltd Method Statement for the application of Deckmaster HFS should be consulted prior to the commencement of work.

Deckmaster HFS is mixed using a drill and paddle in 20kg 'kits' then spread using a fabric roller, brush or squeegee.

Stir the 'A' component for one minute to re-disperse any settlement, stop then add the other two components and continue to stir until mixed. Full mixing should take no more than an additional 60 seconds with the correct equipment.

The mixed material remains in a mobile, liquid form for approximately 6-10 minutes, after which a light gel is formed (lasting approximately 15 minutes). The material then sets into a soft solid.

Excess material can be removed whilst in the gel form. The material is fit for traffic after approximately 2 hours but may increase in properties over a period of a few days.

Aggregate should be broadcast into the material in its liquid state. **It is vitally important that this is carried out as soon as possible after spreading and certainly within 5 minutes of mixing.** Aggregate will not adhere properly to semi-cured or cured adhesive, For Type 1 approved, high friction surfaces, calcined bauxite (1-3mm) should be used. There is no need to roll in the aggregate.

For Type 1 high friction surfaces, the binder should be applied at a rate of 1.33 mm depth (2.0 kg/m<sup>2</sup>) i.e. a 20kg kit should cover 10 square metres on a smooth surface. At this rate the binder should retain 6 kg/m<sup>2</sup> of calcined bauxite. For decorative surfaces a rounded aggregate such as 3mm golden pea gravel will give the best wear characteristics.

## Application Methods/Tools

The complete mix should be emptied onto the area (Do not leave material in bulk in the bucket as this will only shorten the pot-life) and spread evenly using a fabric roller or serrated squeegee to achieve a uniform thickness governed by the aggregate size. Do not allow the material to "pond" in depressions. Depths of over 3mm of adhesive are wasteful and may give rise to foaming of the adhesive particularly on warm substrates.

As soon as the resin has been spread uniformly, the aggregate must be applied to the resin surface, blinding it to excess to ensure complete coverage. This **MUST** be carried out within 5 minutes of mixing.

Once the resin has cured, the excess aggregate can be swept or vacuumed off and reused if clean and uncontaminated.

Tape should be removed when the resin has started its initial cure and no longer flows, but before full cure is reached. It is usually safe to remove the tape 30 minutes after resin application unless the ambient temperature is very cold in which case it will be longer.

Bay joints can be achieved by taping along an appropriate line and applying the resin and aggregate up to it. Remove the tape as described above, wait for the resin to cure and brush the excess aggregate back from the edge thus created. Carefully apply resin up to this line, but not over it, when dealing with the adjoining area and then broadcasting aggregate over it as before.

A treated area can normally be swept or vacuumed from 1 - 4 hours after application depending on an ambient temperature

### **Cleaning of Tools**

Tools and equipment must be cleaned immediately after use.

### **Notes on Application Limitations**

Observe the Dew Point.

Substrate and ambient temperatures between 0°C and +30°C.

### **Applied Product ready for use**

Resistance to foot traffic 1hrs @ 20°C.

Full cure 4-5 hrs @ 20°C.

### **Maintenance**

If the HFS Primer resin is overlaid with resin surfaces these should be cleaned at regular intervals.

Frequency of cleaning will depend on the level of use, importance placed on appearance by the owner/operator and manpower availability. The long-term detrimental effects of oil deposits on the surface should be minimal; therefore, concern should focus on potential slip hazard and mechanical damage.

Any frozen resin surfaces will require to be dealt with using a de-icing medium to prevent a slip hazard.

### **Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Printed date 15.11.09

## Product data sheet

### Deckmaster Fastcure Finish

REF: DMPTD150

Fastcure Finish is a two component Methylmethacrylate-based top coat.

### Product description

Deckmaster Fastcure Finish is a two component top coat, consisting of Fastcure resin, Fastcure Initiator with the optional addition of Fastcure colour paste. It is an abrasion resistant, UV stable, waterproof coating for application onto the Deckmaster System ID base.

### Advantages

Application as low as -10c, providing that the substrate is frost free.

Fast cure, pedestrian traffic within 1 hr, vehicular traffic within 4 hrs.

Resistant to Carbon Dioxide and Chloride ingress.

Wide range of colours available for demarcation and signage.

UV stable finish.

### Characteristics

VISCOSITY (DIN53214 at 25C) 70 -90m Pas

DENSITY (DIN 51757 at 25C) 0.99/cm<sup>3</sup>

POT LIFE: Approximately 15 minutes

CURING TIME (at +20C) Approx 30 mins

FLASH POINT +10C

### Product data

#### Appearance/Colours

Clear liquid resin with an optional range of standard colours

## Packaging

Fastcure Finish Resin:

180kg steel barrels and 50 kg drums

Fastcure Initiator:

2kg bags and 25kg boxes

Fastcure Colour paste: 400g pot Colour

Fastcure Initiator: White powder

Fastcure Colour paste: Standard colours available:

## Storage

Store in cool dry conditions and protect from frost.

## Shelf Life

6 months when stored as recommended in original unopened containers.

## Technical data

### Chemical base

A two component Methylmethacrylate

### Density

1.19g / cm<sup>3</sup>

### Coverage

Application rates will vary depending on substrate, typical 0.5kg/M<sup>2</sup> on 0.4-0.8mm aggregate.

## Mechanical/Physical Properties

TENSILE STRENGTH (DIN 53455) 40N/mm<sup>2</sup>

ELONGATION AT MAXIMUM STRENGTH 1.7%

ELONGATION AT BREAK 1.7%

E MODULUS 3140N/mm<sup>2</sup>

## Application Details

### Substrate Preparation

Before application ensure that surfaces to be coated are firmly fixed, clean dry and free from contaminants.

## Application Conditions Limitations

### Substrate / Ambient Temperature

-10°C min / +30°C max

### Relative Humidity

85% r.h. max

### Dew Point

The temperature must be at least 3°C above the dew point.

## Application Instructions

### Mixing

Fastcure Finish resin should be stirred well to achieve a homogenous state. The Fastcure Colour paste (if required) should then be added and mixed thoroughly using a slow speed drill and paddle. Once fully mixed, add the Fastcure initiator and mix thoroughly again using the same method as above. Refer to the table below for dosage rates. Pour the mixed Fastcure Finish onto the floor in ribbons and spread using a short pile roller. This floor can be trafficked 30- 60 minutes after application. For application details refer to Deckmaster technical services

## Application Methods/Tools

The Deckmaster Fastcure Finish should be applied by squeegee and roller.

## Cleaning of Tools

Tools and equipment must be cleaned immediately after use.

## Notes on Application Limitations

Observe the Dew Point.

Substrate and ambient temperatures between -10°C and 30°C.

## Applied Product ready for use

Resistance to pedestrian traffic 1hr.

Resistance to vehicular traffic 4hrs.

## Maintenance

Surfaces should be cleaned at regular intervals.

Frequency of cleaning will depend on the level of use of the car park, importance placed on appearance by the owner/operator and manpower availability. The long-term detrimental effects of oil deposits on the surface of Deckmaster Fastcure Finish are minimal; therefore, concern should focus on potential slip hazard and mechanical damage.

Any frozen surfaces will require to be dealt with using a de-icing medium to prevent a slip hazard.

### **Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

**Printed Date: 15.11.09**

## Product data sheet

CE BSEN1504-2 09 BRE – JR 243982

Deckmaster BPO DMPTD151

### Description

Deckmaster BPO is a white, free flowing powder.

### Usage/ Purpose

Deckmaster BPO is mixed with the Deckmaster Fast Cure Finish to initiate polymerisation and harden the resin.

### LIMITATIONS

Above +30°C and below 0°C the resin must be supplemented with the delaying or accelerating additives respectively to provide sufficient working time and ensure through polymerisation of the Deckmaster Fast Cure Finish. Deckmaster BPO must NOT be mixed directly with additives.

### Colour

White

### Packaging

2kg or 25kg box

## TECHNICAL INFORMATION

### Composition

Stabilised 50% dibenzoyl peroxide powder.

### Characteristics (Typical Values)

MELTING/DISTORTION TEMPERATURE >+50°C

POWDER DENSITY

0.64 g/cm<sup>3</sup>

SOLUBILITY IN WATER

Not soluble

SOLUBILITY IN ORGANIC SOLVENTS

Highly soluble

THERMAL DECOMPOSITION

>+60°C

## USAGE GUIDELINES

### Method of Application

Dosage rate varies according to the resin used and the temperature, for correct dosage refer to relevant resin or primer data sheet.

Add and mix the accelerator or delaying agents and pigments BEFORE adding Deckmaster BPO

Add the Deckmaster BPO and mix thoroughly until all the powder has dissolved.

Add and mix in fillers as required AFTER adding the Deckmaster BPO

For further information refer to method statement on Deckmaster Fast Cure Finish Systems.

### Dosage Rates

Dosage rate can be varied to suit specific Fast Cure Resins and differing temperature ranges.

### Health & Safety Precautions

Product Health and Safety Data Sheet must be read and understood before use.

### Storage/Shelf life

Store in dry, shaded conditions between +5°C and +25°C. 6 months when stored as recommended in original unopened containers.

### Technical Service

Deckmaster has a team of experienced Technical Sales Representatives who provided assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Service on 01257 257028.

### Guarantee/Warranty

Deckmaster products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Deckmaster written instructions and (b) in any application recommended by Deckmaster, but which is proved to be defective will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Deckmaster reserves the right to alter product specifications without prior notice, in line with company policy of continuous development and improvement.

Printed 21.11.09

**Product material safety data sheet:**  
**Deckmaster HFS PART A**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMMSDS93A**

## 1. PRODUCT NAME & SUPPLIER DECKMASTER HFS PRIMER PART A

- Deckmaster Ltd
- Blackthorn House
- Skull House Lane
- Appley Bridge
- Wigan
- WN6 9DB
- +44 (0)1257 257 028
- +44 (0)1257 571 189

## 2. COMPONENT COMPOSITION INFORMATION

Name	EC No.	CAS-No.	Content	Classification
CALCIUM SILICATE/ LIME ASMIXTURE			60/100%	Xi;R41,R37/38. R43.

The Full Text for all R-Phases are Displayed in Section 16

## 3. HAZARD IDENTIFICATION

Risk of serious damage to eyes.  
 May cause sensitisation by skin contact.  
 Irritating to respiratory system and skin.

**CLASSIFICATION** Xi;R37/38, R41. R43

## 4. FIRST AID MEASURES

### INHALATION

Move the exposed person to fresh air at once. If airways become inflamed, seek medical attention immediately.

### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water.

### SKIN CONTACT

Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

### EYE CONTACT

Rinse the eye with water immediately. Continue to rinse for at least 15 minutes and get medical attention.

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

See section 8 for suitable Personal Protective Equipment

### ENVIRONMENTAL PRECAUTIONS

Avoid contamination of soil, drains and surface water

### SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers.

## 7. HANDLING AND STORAGE

### USEAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

### STORAGE PRECAUTIONS

Keep dry.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT

#### HAND PROTECTION

Use protective gloves made of; Impermeable material.

#### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

#### OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid
COLOUR	Buff
p-H VALUE, CONC.SOLUTION	12-14

## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions

### MATERIALS TO AVOID

Strong acids. Strong alkalies

## 11. TOXICOLOGICAL INFORMATION

### INGESTION

May cause burns in mucous membranes, throat, oesophagus and stomach.

### SKIN CONTACT

Irritation to skin. May cause sensitisation by skin contact.

### EYE CONTACT

May cause chemical eye burns

## 12. ECOLOGICAL EFFECTS

### ECOTOXICITY

High concentrations in water will cause water pH to rise which may cause harm to aquatic life

### 13. DISPOSAL CONSIDERATIONS

#### GENERAL INFORMATION

Product is not classified as hazardous waste according to the Hazardous Waste Regulations (2005)

### 14. TRANSPORT INFORMATION

**GENERAL** Not classified as hazardous for transport

### 15. REGULATORY INFORMATION

#### LABELLING

**CONTAINS** CALCUIM SILICATE/ LIME ADMIXTURE

**RISK PHRASES** R41 Risk of serious damage to eyes  
R43 May cause sensitisation by skin contact  
R37/38 Irritating to respiratory system and skin

**SAFETY PHRASES** S24/25 Avoid contact with skin and eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection  
P17 Contains Chromium (VI). May produce an allergic reaction.

#### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging for Supply) Regulations 2002.

#### EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC

### 16. OTHER INFORMATION

#### RISK PHRASES IN FULL

R41 Risk of serious damage to eyes  
R43 May cause sensitisation by skin contact  
R37/38 Irritating to respiratory system and skin

This information is based on our present knowledge. However this does not constitute a guarantee for any specific product feature and does not establish a legally valid contractual relationship.

Printed date 15.11.09

**Product material safety data sheet:**  
**Deckmaster HFS PART B**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMMSDS93B**

## 1. PRODUCT NAME & SUPPLIER DECKMASTER HFS PART B

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- Skull House Lane
- Appley Bridge
- Wigan
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## 2. COMPONENT COMPOSITION INFORMATION

Aqueous dispersion  
No significant hazardous ingredients.

## 3. HAZARD IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

## 4. FIRST AID MEASURES

### INHALATION

Fresh air.

### INGESTION

DO NOT INDUCE VOMITING! Get medical attention.

### SKIN CONTACT

Wash the skin with soap and water. Get medical attention promptly if irritation persists occur after washing.

### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Product is non combustible

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers

## 7. HANDLING AND STORAGE

### USEAGE PRECAUTIONS

Avoid, skin and eye contact.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Hand protection

Protective gloves should be used if there is a risk of direct contact or splash.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	White
SOLUBILITY	Miscible with water.
BOILING POINT(°C)	100' 760MM Hg
RELATIVE DENSITY	1.01 @ 20°C
Ph Value CONC. SOLUTION	3
AUTO IGNITION TEMPERATURE(°C)	N/A
FLASH POINT ('C)	N/A

## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions

### HAZARDOUS DECOMPOSITION PRODUCTS

No Specific hazardous decomposition products noted

## 11. TOXICOLOGICAL INFORMATION

### GENERAL INFORMATION

This product has low toxicity. Only large volume may have adverse impact on human health.

## 12. ECOLOGICAL EFFECTS

### ECOTOXICITY

Not regarded as dangerous for the environment

### DEGRADABILITY

Not biodegradable

### ACUTE FISH TOXICITY

Low toxicity to aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Do not allow run off to sewer, waterway or ground.

Dispose of waste and residues in accordance with local authority regulations.

#### 14. TRANSPORT INFORMATION

**GENERAL** Not classified as hazardous for transport

#### 15. REGULATORY INFORMATION

RISK PHRASES NC classified.

#### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging for Supply) Regulations 2002.

#### EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC

#### 16. OTHER INFORMATION

Printed date 15.11.09

**Product material safety data sheet:**  
**Deckmaster HFS PART C**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMMSDS93C**

### 1. PRODUCT NAME & SUPPLIER DECKMASTER PRIMER PART C

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### 2. COMPONENT COMPOSITION INFORMATION

Name	EC No.	CAS-No	Content	Classification
DIPHENYLMETHANEDIISOCYANATE – Isomers & homologues		9016-87-9	60-100%	Xn;R20.Xi;r36/37/38. R42.

The full Text for all R-Phrases are Displayed in Section 16

### 3. HAZARD IDENTIFICATION

Harmful by inhalation.  
 May cause sensitisation by inhalation.  
 Irritation to eyes, respiratory system and skin  
 CLASSIFICATION Xn;R20 R42. Xi;r36/37/38

### 4. FIRST AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

#### INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

#### SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5. FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Small fires : Powder. Foam . Do not use water if avoidable. Larger fires :Water spray.

#### SPECIAL FIRE FIGHTING PROCEDURES

Do not get water inside the container. NOTE! Use air-supplied respirators to protect against gases/fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN UP METHODS

Wear necessary protective equipment. Ventilate well. Avoid contact with skin or inhalation of spillage, dust or vapour. Avoid water on spilled material or leaking containers. Collect with absorbent, non-combustible material into suitable containers. If material is contaminated with water containers must be vented. Do not contaminate water sources or sewer.

## 7. HANDLING AND STORAGE

### USEAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate will, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry will-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	EC No.	CAS-No	Content	Classification
DIPHENYLMETHANEDIISOCYANATE – Isomers & homologues		9016-87-9	60-100%	Xn;R20.Xi;r36/37/38. R42.

### PROTECTIVE EQUIPMENT

#### ENGINEERING MEASURE

Must not be handled in confined spaces without sufficient ventilation

#### RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

#### HAND PROTECTION

Use protective gloves made of: Neoprene. Nitrile

#### EYE PROTECTION

Wear approved safety goggles. Use face shield in case of splash risk .

#### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Liquid
<b>COLOUR</b>	Brown
<b>ODOUR</b>	Musty (mouldy).
<b>SOLUBILITY</b>	Immiscible with water.
<b>BOILING POINT(°C)</b>	>100 <sup>0</sup>
<b>RELATIVE DENSITY</b>	1.23
<b>VAPOUR PRESSURE</b>	<0.00001 mPa @25 <sup>0</sup> c
<b>FLASH POINT(°C)</b>	>200 <sup>0</sup> Not noted.
<b>AUTO IGNITION TEMPERATURE(°C)</b>	>530 <sup>0</sup>

## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions

### CONDITIONS TO AVOID

Reacts with water forming carbon dioxide which may cause pressure to rise in a sealed container.

### MATERIALS TO AVOID

Acid reactive. Water reactive material.

## HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Cyanides. Oxides of: Nitrogen.

### 11. TOXICOLOGICAL INFORMATION

#### INHALATION

May cause irritation to the respiratory system. May cause sensitisation by inhalation.

#### INGESTION

May cause discomfort if swallowed.

#### SKIN CONTACT

May cause severe irritation to eyes

#### TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

### 12. ECOLOGICAL EFFECTS

#### ECOTOXICITY

Little danger to the environment

### 13. DISPOSAL CONSIDERATIONS

#### GENERAL INFORMATION

Waste product is classified as Hazardous Waste

Contaminated rags etc are also hazardous waste, as are un-cleaned cans.

#### DISPOSAL METHODS

In the UK refer to the Hazardous Waste Regulations (2005)

#### WASTE CLASS

Hazard Classification: H5

EWC Code: 08 05 01

### 14. TRANSPORT INFORMATION

#### GENERAL

Not classified as hazardous for transport

#### MARINE POLLUTANT

No

### 15. REGULATORY INFORMATION

#### LABELLING

#### CONTAINS

DIPHENYLMETHANEDIISOCYANATE – Isomers & homologues

#### RISK PHRASES

R20	Harmful by inhalation
R42	May cause sensitisation by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin.

#### SAFETY PHRASES

S23	Do not breath vapour/spray.
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rise immediately with plenty of water and seek medical advice.
S27	Wear suitable gloves
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
P4	Contains isocyanides. See information supplied by the manufacturer.

**UK REGULATORY REFERENCES**

Chemicals (Hazard Information & Packaging for Supply) Regulations 2002.

**EU DIRECTIVES**

Dangerous Preparations Directive 1999/45/EC

**GUIDANCE NOTES**

Isocyanides toxic hazards and precautions EH16.

**16. OTHER INFORMATION****RISK PHRASES IN FULL**

R20	Harmful by inhalation
R42	May cause sensitisation by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin

This information is based on our present knowledge. However this does not constitute a guarantee for any specific product feature and does not establish a legally valid contractual relationship.

**Printed date 15.11.09**

**Product material safety data sheet:**  
**Deckmaster Fastcure Finish**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMMSDS94**

## 1. PRODUCT NAME & SUPPLIER FAST CURE SEALER

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## 2. COMPONENT COMPOSITION INFORMATION

Name	EC No.	CAS-No	Content	Classification
ETHYLENE DIMETHACRYLATE	202-617-2	97-90-5	5-10%	R43 Xi; R37
METHYL METHACRYLATE	201-297-1	80-62-6	60-100%	F;R11 R43 Xi; R37/38

The full Text for all R-Phrases are Displayed in Section 16

## 3. HAZARD IDENTIFICATION

Highly flammable  
 May cause sensitisation by skin contact  
 Irritating to respiratory system and skin  
 CLASSIFICATION Xn;R37/38 R43. FR11

## 4. FIRST AID MEASURES

### INHALATION

Provide rest, warmth and fresh air. Place unconscious person the side in the recovery position and ensure breathing. Get medical attention if any discomfort continues.

### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention immediately!

### SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the lids. Continue to rinse for at least 15 minutes and get medical attention.

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Foam, carbon dioxide or dry powder. Water spray DO NOT USE : Water jet

### SPECIAL FIRE FIGHTING PROCEDURES

Use supplied air respirator if product is involved in a fire. Use water spray only to cool containers! Do not put water on leaked material.

## UNUSUAL FIRE & EXPLOSION HAZARDS

Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Fire causes formation of toxic gases.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN UP METHODS

Stop leak if possible without risk. DO NOT touch spilled material! Extinguish all ignition sources. Avoid sparks, flames, heat and smoking, ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Inform Authorities if large amounts are involved. Absorb in vermiculite, dry sand or earth and place into containers.

## 7. HANDLING AND STORAGE

### USEAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool and dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	EC No.	CAS-No	Content	Classification
METHYL METHACRYLATE	201-297-1	80-62-6	60-100%	F;R11 R43 Xi; R37/38

## PROTECTIVE EQUIPMENT

### RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level. Use chemical cartridge protection with appropriate cartridge.

### HAND PROTECTION

Use protective gloves made of : Nitrile

### EYE PROTECTION

Wear approved safety goggles to prevent any possibility of eye contact.

### OTHER PROTECTION

Wear antistatic, flame retardant protective clothing and antistatic boots

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Liquid
<b>COLOUR</b>	Clear to milky blue
<b>ODOUR</b>	Acrylic
<b>PHYSICAL DATA COMMENTS</b>	Information give concern the major ingredient
<b>SOLUBILITY</b>	Slightly soluble in water.
<b>PHYSICAL DATA COMMENTS</b>	Information give concern the major ingredient
<b>BOILING POINT(°C)</b>	>100 <sup>0</sup> 760mm Hg
<b>RELATIVE DENSITY</b>	0.99
<b>VAPOUR PRESSURE</b>	36mbar @20 <sup>0</sup> c
<b>VOLITILE BY VOL (%)</b>	100
<b>VISCOSITY</b>	80 <sup>0</sup> mPaS @20 <sup>0</sup> c
<b>FLASH POINT(°C)</b>	11.5 cc (CLOSED CUP)
<b>FLAMABILITY LIMIT- LOWER (%)</b>	2.1 <sup>1</sup>
<b>FLAMABILITY LIMIT- UPPER (%)</b>	12.0 <sup>1</sup>
<b>PARTITION COEFFICIENT</b>	<b>0.73<sup>1</sup></b>
<b>SOLUBILITY VALUE (g/100g H2O@20<sup>0</sup>C)</b>	<b>1.6<sup>1</sup></b>

## 10. STABILITY AND REACTIVITY

### POLYMERISATION DESCRIPTION

Avoid heat, light and moisture. Possibility of strongly exothermal polymerisation on exposure to heat or catalysing substances. Polymerisation may cause pressure build up and bursting of drums polymerisation may be checked by cooling or adding an inhibitor such as hydroquinone.

### MATERIALS TO AVOID

Organic peroxides/hydroperoxides. Strong oxidising substances. Strong reducing agents.

## 11. TOXICOLOGICAL INFORMATION

### INHALATION

Relatively low toxicity. Odour threshold is well below occupational exposure limit

### INGESTION

Low oral toxicity.

### SKIN CONTACT

May cause skin irritation /eczema. May cause sensitisation by skin contact.

## 12. ECOLOGICAL EFFECTS

### BIOACCUMULATION

Low potential for bioaccumulation

### DEGRADABILITY

Readily biodegradable

### ACUTE FISH TOXICITY

Low toxicity to aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Waste product is classified as Hazardous Waste

Contaminated rags etc are also hazardous waste, as are un-cleaned cans.

Fully cured product is not hazardous

### DISPOSAL METHODS

In the UK refer to the Hazardous Waste Regulations (2005)

### WASTE CLASS

Hazard Classification : H3A, H4

## 14. TRANSPORT INFORMATION

UK ROAD CLASS	3
PROPER SHIPPING NAME	RESIN SOLUTION
UN NO. ROAD	1866
ADR CLASS NO	3
ADR PACK GROUP	II
IMDG CLASS	3
UN NO AIR	1866
AIR PACK GR	II
UK ROAD PACK GR	II
ADR CLASS	CLASS 3 : FLAMMABLE LIQUIDS
UN NO SEA	1866
IMDG PACK GR	II
AIR CLASS	3

## 15. REGULATORY INFORMATION

### LABELLING

**CONTAINS** ETHYLENE DIMETHACRYLATE , METHYL METHACRYLATE

RISK PHRASES	R11	Highly flammable
	R43	May cause sensitisation by skin contact
	R37/38	Irritating to respiratory system and skin.
SAFETY PHRASES	S51	Use only in well ventilated area
	S16	Keep container away from sources of ignition- no smoking
	S9	keep container in a well ventilated place
	S37	Wear suitable gloves
	S24	Avoid contact with skin

### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging for Supply) Regulations 2002.

### EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC

## 16. OTHER INFORMATION

### RISK PHRASES IN FULL

R11	Highly flammable
R43	May cause sensitisation by skin contact
R37/38	Irritating to respiratory system and skin.

This information is based on our present knowledge. However this does not constitute a guarantee for any specific product feature and does not establish a legally valid contractual relationship.

**Printed date 15.11.09**

**Product material safety data sheet:**  
**Deckmaster BPO**  
**CE BSEN1504-2 09 BRE – JR 243982**  
**REF: DMMSDS94A**

## 1. PRODUCT NAME & SUPPLIER DECKMASTER BPO

- Deckmaster Ltd
- Blackthorn House
- Skull House Lane
- Appley Bridge
- Wigan
- WN6 9DB
- +44 (0)1257 257 028
- +44 (0)1257 571 189

## 2. COMPONENT COMPOSITION INFORMATION

Name	EC No.	CAS-No	Content	Classification
BENZOYL PEROXIDE	202-327-6	94-36-0	30-60%	E;R2 R43 Xi;R36

The full Text for all R-Phrases are Displayed in Section 16

## 3. HAZARD IDENTIFICATION

May cause fire

Irritating to eyes

CLASSIFICATION

Xi;R36. R43. O;R7

## 4. FIRST AID MEASURES

### INHALATION

Fresh air. Get medical attention if any discomfort continues.

### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention immediately!

### SKIN CONTACT

Wash skin immediately with soap and water. Get medical attention if any discomfort continues.

### EYE CONTACT

Promptly wash eyes with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Foam, carbon dioxide or dry powder.

Water Spray

DO NOT use halogenated extinguishing media.

### SPECIAL FIRE FIGHTING PROCEDURES

Water spray should be used to cool containers.

### UNUSUAL FIRE & EXPLOSION HAZARDS

Emits oxygen easily and may cause fire or explosion if heated. Explosively reactive with many materials. May ignite other combustible materials. Product will support combustion.

**SPECIFIC HAZARDS**

By heating and fire, toxic vapours/gases may be formed.

**PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing. Use air-supplied respirator during fire fighting.

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes.

**ENVIRONMENTAL PRECAUTIONS**

Avoid release to the environment.

**SPILL CLEAN UP METHODS**

Avoid dust formation. Keep combustibles away from spilled material. Collect into sealed non-metallic container, containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush with plenty of water to clean spillage area.

**7. HANDLING AND STORAGE**

**USEAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Do not use tools which may generate sparks. Avoid handling which leads to dust formation. Read and follow manufacturer's recommendations. Avoid contact with skin and eyes.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Store separated from : Reducing agents, Alkalies. Keep in original container.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA – 8 hrs	STEL – 15min	Notes
BENZOYL PEROXIDE	WEL	5 mg/m3		

**PROTECTIVE EQUIPMENT**

**ENGINEERING MEASURES**

Provide adequate ventilation.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided. Use specified dust masks.

**HAND PROTECTION**

Use protective gloves

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Powder, dust		
<b>COLOUR</b>	White		
<b>ODOUR</b>	Mild		
<b>PHYSICAL DATA COMMENTS</b> (SADT) = 55°C	Self-Accelerating	Decomposition	Temperature
<b>SOLUBILITY</b>	Insoluble in water.		
<b>RELATIVE DENSITY</b>	1.23		
<b>FLASH POINT(°C)</b>	>55°C		
<b>MELTING POINT</b>	>40°C		
<b>AUTO IGINTION TEMPERATURE</b>	(°C) 380°C		

## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions. Risk of self-accelerating decomposition above 55°C

### CONDITIONS TO AVOID

Do not allow product to dry out.

### MATERIALS TO AVOID

Acids, Alkalis, Reducing agents, Iron oxides. Containers and equipment should be pvc, polyethylene or glass

### HAZARDOUS DECOMPOSITION PRODUCTS

By heating, vapours/gases hazardous to health may be formed.

## 11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >5000 mg/kg (oral rat)

TOXIC CONC> - LC 50 >24.3 mg/l/4h (inh-rat)

### GENERAL INFORMATION

No specific health warnings noted

### SKIN CONTACT

May cause sensitisation by skin contact. Powder may irritate skin.

### EYE CONTACT

May cause irritation.

## 12. ECOLOGICAL EFFECTS

### ECOTOXICITY

Dangerous for the environment if discharged into watercourses

### BIOACCUMULATION

Contains phthalates which have a high potential for bioaccumulation

### DEGRADEABLILTY

Slowly biodegradable

### ACUTE FISH TOXICITY

Moderate toxicity to aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Waste product is classified as Hazardous Waste

### DISPOSAL METHODS

In the UK refer to the Hazardous Waste Regulations (2005)

### WASTE CLASS

Hazard Classification : H2, H4 EWC Code : 16 09 03

#### 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)
AIR TRANSPORT NOTES	Organic peroxide & keep away from heat, special provisions A14&A20
UN NO ROAD	3106
ADR PACK GROUP	-
HAZARD NO (ADR)	50 Oxidising (fire intensifying) substance
IMDG CLASS	5.2
MARINE POLLUTANT	No
AIR CLASS	5.2
ADR CLASS	Class 5.2: Organic peroxides
TUNNER RESTRICTION CODE(D)	
UN NO SEA	3106
IMDG PACK GR	-
UN NO AIR	3106
AIR PACK GR	-

#### 15. REGULATORY INFORMATION

##### LABELLING

##### CONTAINS BENZOYL PEROXIDE

RISK PHRASES	R7	May cause fire
	R36	Irritating to eyes
	R43	May cause sensitisation by skin contact
SAFETY PHRASES	S3/7	Keep container tightly closed in a cool place
	S24/25	Avoid contact with skin and eyes
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S50	Do not mix with acid
	S60	This material and its container must be disposed of as hazardous waste.

##### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging for Supply) Regulations 2009("CHIP 4").

##### EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC

##### GUIDANCE NOTES

Workplace Exposure limits EH40

## 16. OTHER INFORMATION

### RISK PHRASES IN FULL

R2	Risk of explosion by shock, friction, fire or other sources of ignition.
R36	Irritation to eyes
R43	May cause sensitisation by skin contact.

This information is based on our present knowledge. However this does not constitute a guarantee for any specific product feature and does not establish a legally valid contractual relationship.

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