



## TECHNICAL DATA SHEET

### MULTI-USE WATER BASED EPOXY COATING

A two coat application of non toxic epoxy paint, a system that can be used in damp conditions.

**CONSTRUCTION CHEMICAL WATER BASED EPOXY** is a water dispersible epoxy coating suitable for all applications where concrete or masonry requires waterproofing and protection. It is applied in the same manner as ordinary paint with the added benefit of application in damp conditions.

Once cured **CONSTRUCTION CHEMICAL WATER BASED EPOXY** leaves a tough, non toxic, waterproof, easy to clean surface.

#### USES

1. As a membrane to prevent rising damp in floors.
2. As a general waterproofing and decorative finish for all brick, concrete, cement and masonry surfaces.
3. As a sealing coat for asbestos containing materials.
4. Wall coating in areas of food manufacture and storage, i.e. Dairies, Grain Silos, Breweries.
5. As a tank lining for protection against chemicals, i.e. bund walls.
6. Basements and cellars in need of waterproofing where features need to be in view.
7. Newly laid concrete floors where speed is required to lay wood floors or tiles.
8. For application to damp surfaces where other paints or coatings will not adhere.
9. As a hard wearing epoxy finish to industrial and domestic floors, available in many colours including a clear finish.
10. As a barrier between Anhydrite and Gyvlon screeds when cement based adhesives are to be used.



*STREETON HALL LINCOLNSHIRE, WATERPROOFING THE CELLAR IN THIS PROPERTY WAS CARRIED OUT USING CONSTRUCTION CHEMICALS TANKING SLURRY, THE OWNERS REQUESTED THAT THE NATURAL STONE IN PART OF THE CELLAR BE EXPOSED AS A FEATURE AS WELL AS BEING SEALED, CONSTRUCTION CHEMICALS WB EPOXY WAS SPECIFIED TO CONFORM TO THE OWNERS REQUEST.*

**CONSTRUCTION CHEMICAL WATER BASED EPOXY** will coat over most other finishes but best results are achieved when surfaces are free and clean of other coatings. Any greasy film should be removed prior to application to ensure a sound key. Voids, holes and gaps must be carefully filled.

Mixing of **CONSTRUCTION CHEMICAL WATER BASED EPOXY** couldn't be easier – Simply remove the ring which holds both tins together – Add Pack B into Pack A (the larger tin) stirring continuously. Stir well to ensure that the hardener (Pack B) is completely dispersed into (Pack A). Then slowly add clean water to the fill line indicated, stirring continuously.

**CONSTRUCTION CHEMICAL WATER BASED EPOXY** is now ready to be applied immediately. A two coat system is sufficient but where the surface is very porous a third coat may be required. Where being used as a waterproof membrane a three coat application is recommended to ensure complete coverage. The second coat should be applied as soon as the first coat is touch dry to ensure a good key.

**CONSTRUCTION CHEMICAL WATER BASED EPOXY** has a shelf life of approximately 12 months if both tins are kept unopened. Best kept in a cool, dry, frost free environment.

**CONSTRUCTION CHEMICAL WATER BASED EPOXY** is a very safe product to use however it is recommended that all skin and eye contact be avoided and that any areas of skin contact be washed immediately with soap and water. It is advisable to wear gloves. **DO NOT INGEST.** If this occurs seek medical advice immediately. Keep out of reach of children.

*CONSTRUCTION CHEMICAL WATER BASED EPOXY is ideal for food preparation or storage areas and factory floors where a hard wearing surface is required, a variety of colours are available.*



- **CURING**, tough cure in 4 hours- hard dry in 12 hours, maximum cure 8 days.
- Once cured **CONSTRUCTION CHEMICAL WATER BASED EPOXY** can withstand pressure washing, steam cleaning and washing with sterilizing solutions.
- **PACKAGING**, Two part product when mixed gives 5litre or 2.5 litre. Clean and easy to use.
- **COLOURS**, Clear, red, grey, green, and blue..
- **COVERAGE**, Approximately 7 square metres per 1 litre, this may reduce on uneven surfaces.
- **STORAGE**, **Store** in cool, dry conditions in original packaging. Protect from freezing. A shelf life of 12 months can be expected.
- **CLEANING AND EQUIPMENT**, if using spray equipment, rinse thoroughly with cold water frequently to avoid build up of cured paint. Brushes and rollers should be washed in cold water and mild detergent.
- **APPLICATION**, A two part product– simply mix pack B into Pack A stirring continuously and add water to fill line. As easy to use as ordinary emulsion paint, apply using a brush, roller or spray. 2<sup>nd</sup> coat should be applied as soon as 1<sup>st</sup> coat is touch dry.
- **GENERAL**, Assorted colours available. This product is Non Toxic, tough and durable.

**Warning – Do not apply in temperatures below 10°C**

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## Health & Safety Data Sheet - Waterbased Epoxy Coating

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name:** Waterbased Epoxy Coating      **Supplier:** Construction Chemicals (UK) Ltd  
75 Town Green Street  
Rothley  
Leicester  
LE7 7NW

**Tel: 0116 230 1955 email. sales@constructionchemicals.co.uk**

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

A 2 part system comprising resin and hardener which are supplied in separate containers to be mixed together on site prior to application.

	CAS No	Hazard	R-phrases
<b>A Pack:</b>			
Tetraethylenepentamine	112-57-2	Xi	R36/38 43 52/53
Non-toxic pigments and non-toxic additives	14807-96-6		
Water			
Titanium Dioxide	13463-67-7		
<b>B pack:</b>			
Bisphenol A-epichlorohydrin	25068-38-6	Xi, N	R36/38,43,51/53
Epoxypropyl Neodecanoate	26761-45-5	Xi,N	R43,51/53

### 3. HAZARDS IDENTIFICATION

A & B Pack      Irritating to eyes and skin.  
May cause sensitisation by skin contact.  
Harmful in contact with skin and if swallowed.  
Toxic to aquatic organisms.

### 4. FIRST AID MEASURES

Eye Contact:      Rinse immediately with water and seek medical attention.  
Skin Contact:      Rinse immediately with soap and water.  
Remove contaminated clothing.  
In case of persistent irritation, or if a rash develops, seek medical attention.  
Inhalation:      Remove the affected person to fresh air and allow to rest.  
In case of breathing difficulty seek medical attention.  
Ingestion:      Immediately rinse mouth with water and drink plenty of water. Do not induce vomiting. Seek medical attention.

### 5. FIRE FIGHTING MEASURES

This product is not flammable.

Special hazards:      If involved in a fire, noxious or toxic vapours may be generated  
Protective equipment:      Fire fighters wear self contained breathing apparatus.  
Extinguishing agents:      Foam, dry powder, CO2 or water spray.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective clothing when dealing with a spillage. Goggles. Gloves. Protective overalls.
Environmental precautions:	Prevent from entering sewer system, surface water, or soil.
Methods for cleaning up:	Absorb with earth, sand or other absorbent materials. Wash the area clean with water and detergent. Put spilled material into appropriate waste disposal.

## 7. HANDLING AND STORAGE

Handling:	Wear goggles or a face shield, impervious gloves and protective clothing.
Storage:	Store in a cool, well ventilated place away from foodstuffs. Keep containers sealed until mixing.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment:	Wear goggles or a face shield, impervious gloves and protective clothing.
Ventilation:	Ventilated area.
Respirators:	No specific recommendations made
Protective gloves:	Nitrile rubber
Eye protection:	Wear chemical safety goggles where eye exposure is probable. Wear approved eye protection according to BS 2092 or equivalent.
Hygienic work rules:	Wash hands after handling compounds and before eating or drinking. Use appropriate hand lotion to prevent defatting and cracking of the skin. No eating, drinking or smoking while working with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A Pack	Physical state:	Mobile fluid.
	Colour:	Produced in variety of colours
	Odour:	amine like.
	Boiling point:	circa >160°C
	Flash point:	>100°C.
	Self ignition temp:	not applicable.
	Specific Gravity:	about 1.07 @ 20°C.
	Solubility:	fully miscible with water.
	Viscosity:	500-7500cPs @ 25°C.
B Pack:	Physical state:	Mobile clear liquid.
	Colour:	Clear
	Odour:	weak odour.
	Boiling point:	100°C.
	Flash point:	>200°C.
	Specific Gravity:	about 1.07 @ 20°C.
	Solubility:	Miscible with water.
	Viscosity:	500-7500cPs @ 25°C.

## 10. STABILITY AND REACTIVITY

A Pack:	Stability:	Normally stable
	Conditions to avoid:	Reacts exothermally with acids. In case of a fire, toxic fumes of nitrogen oxides may be formed.
B Pack:	Stability:	Normally stable
	Conditions to avoid:	Risk of exothermic reaction with oxidising agents, strongly alkaline and strongly acidic materials.
A Pack:		In a fire, carbon(soot) deposits plus carbon monoxide and dioxide and oxides of nitrogen may be produced.
B Pack:		In case of a fire, carbon monoxide, carbon dioxide and other harmful gases may be formed.

**11. TOXICOLOGICAL INFORMATION**

A Pack: LD50 oral, rat: 2000mg/kg.  
Epoxy resins such as contained in this product have been shown to cause irritation in humans on skin and eyes. Skin sensitisation was also observed.

B Pack: LD50 oral, rat: >10000mg/kg.  
The polyaminoamide as contained in this product is an irritant to skin and a severe irritant to eyes.

**12. ECOLOGICAL INFORMATION**

Environmental precautions: Prevent from entering sewer system, surface water or soil. Do not allow runoff to sewer, waterway or ground. Absorb in vermiculite or dry sand, dispose of in accordance with Local Authority requirements.

**13. DISPOSAL CONSIDERATIONS**

Waste: Treat the disposal of solids as hazardous waste.

**14. TRANSPORT INFORMATION**

Road:  
A Pack: ADR Class: Non Hazardous for ADR  
UN Number: Not required

Label for transport: Non required

B Pack UN Number: 3082  
ADR Class: 9  
Packing group: III  
Label: 9  
Hazard ID number: 90  
Transport category: 3  
Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S  
(Contains Epoxy Resin)

Label for transport:

**CLASS 9 HAZARD**  
Miscellaneous dangerous substances and articles



(No. 9)

Symbol (seven vertical stripes in upper half): black;  
Background: white;  
Figure '9' underlined in bottom corner

**15. REGULATORY INFORMATION**

Resin:

EC Label name: Contains EPOXY RESIN  
Contains NEODECANOIC ACID GLYCIDYL ESTER

Hazard labels: Xi Irritant.  
N Dangerous for the environment.



R-phrases: 51/53 toxic to aquatic organisms.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

S-phrases S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S36 Wear suitable protective clothing.  
S61 Avoid release to environment. Refer to special instructions.

Hardener:

Hazard labels: Xi Irritant.



R-phrases: R-36/38 Irritating to the eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Harmful to aquatic organisms.

S-phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately.

## 16. OTHER INFORMATION

Pack A & Pack B must be mixed together in the approximate ratio as per their packed weights.

The above information should be regarded as being applicable to the finished paint as well as to the individual A & B Packs.

**TO OUR KNOWLEDGE THE ABOVE INFORMATION IS ACCURATE AND NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, INJURY OR DAMAGE RESULTING FROM ITS USE. IT IS INTENDED AS A GUIDE FOR THE SAFE HANDLING, STORAGE AND USE UNDER NORMAL CONDITIONS, BUT IT DOES NOT NECESSARILY INFER TO THE PARTICULAR REQUIREMENT OF THE CUSTOMER WHEN FURTHER ADVICE SHOULD BE OBTAINED.**