

ZeroPlus™

Bed Joint Mortar for Porotherm Cellular Clay Masonry

Storage and Processing Instructions

Storage:

Bagged goods must always be stored in clean, dry conditions.

Mixing:

Roller Method: For a full bag mix add approximately 3.6 litres of clean water to the bucket then add the powder. Stir quickly and vigorously (using an agitator / paddle mixer) until a smooth, lump free consistency is produced. Allow to stand for 10 to 15 minutes and then stir again.

Dipping Method: Add between 4.5 and 4.8 litres of clean water to the bucket. Stir quickly and vigorously (using an agitator / paddle mixer) until a smooth, lump free consistency is produced. Allow to stand for 10 to 15 minutes and then stir again.

Processing Time:

Protected mortar; Approximately 4 hours at 20°C, but will be extended at lower temperatures and reduced at higher temperatures.

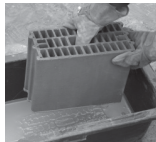
Processing Temperature:

Use only when the air temperature is at least 0°C and rising. Please be aware that internal situations may be colder than external and any wind chill factor must be taken in to consideration. Do not use when blocks or existing work are frozen. Do not mix with water that is partially frozen or is thawing. Mixing water should always be from a mains tap that has not been frozen. In addition, early strength development will be reduced at low temperatures and therefore, the blocks and mortar must be adequately protected at all times with appropriate insulating covers prior to and after application so that fresh masonry does not fall below 0°C. Mixing in an insulated bucket with an insulated lid is strongly recommended.



Roller method:

The mixed mortar is transferred from the bucket into the special Porotherm mortar roller. Mortar is normally applied to a 5 to 6m length of horizontal joint using the mortar roller. The speed of rolling and the angle of application must be adjusted to ensure that an even mortar layer is applied evenly from the roller and covers the entire surface area of the horizontal joint.



Dipping method:

Dip the underside of the block approximately 1 to 2mm deep in to the mortar (using a mortar tray) and then set in place immediately. The mortar must adhere completely to all the webs and shells of the block.

Advice:


This product contains cement and produces an alkaline reaction when it comes into contact with moisture/water. Therefore, ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. Seek medical assistance immediately if it comes into contact with the eyes. Contains Chromium VI, however a reducing agent ensures that the Cr VI content of the mortar remains below 2ppm during the shelf life of the product. It may produce an allergic reaction.

The information provided herein is based on extensive tests and practical experience. It does not apply to every application situation. For this reason we recommend that suitable site trials are carried out to determine optimum procedures.

Manufactured for Wienerberger Ltd. by N&C Building Products Ltd., Amicable Street, Burslem, Stoke on Trent ST6 3 BH. Tel 01782 833330 Fax 01782 834225

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Our general terms and conditions apply. The product has a shelf life of at least 12 months when stored correctly. Conforms to EN 998-2

	HEALTH AND SAFETY WARNING
	CONTAINS CEMENT – PROLONGED CONTACT WITH WET CEMENT MAY CAUSE IRRITATION, DERMATITIS OR BURNS. CONTAINS CHROMIUM VI – MAY PRODUCE AN ALLERGIC REACTION.
XI: IRRITANT	
<ul style="list-style-type: none"> • R 37/38 Irritating to respiratory system and skin • R 41 Risk of serious damage to eyes • R 43 May cause sensitisation by skin contact • S 22 Do not breathe dust • S 24 Avoid contact with skin • S 25 Avoid contact with eyes • S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. • S 28 After contact with skin, wash immediately with plenty of clean water • S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection • S 46 If swallowed, seek medical advice immediately and show this container or label 	

15kg

Sufficient mortar for normal application rates is provided free of charge alongside block deliveries.

Approved PPE must be worn when using this product.




POROTHERM

Bed Joint Mortar For Porotherm Cellular Clay Masonry
Safety Instructions –ZeroPlus– Bed Joint Mortar Data Sheet according to 1907/2006/EC, Article 13
1 Identification of the substance/preparation and of the company/undertaking
Product details

Trade name: PDBM-UK POROTHERM ZeroPlus™ Bed mortar, Ref:PWD149. Application of the substance/preparation: Factory produced dry mortar consisting of mineral binding agents to be mixed with water. **Manufacturer/Supplier:** N&C Building Products Ltd. Amicable St. Burslem, Stoke-on-Trent ST6 3BH, UK. **Further information obtainable from:** R. K. Ody Telephone: 01782 833330 Email: keith.ody@nichollsandclarke.com **Information in case of emergency:** as above.

2 Hazards identification
Hazard description


Xi Irritant

Information concerning particular hazards for human and environment: R37/38 Irritating to respiratory system and skin. R41 Risk of serious damage to eyes.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements


Danger

3.3/1 - Causes serious eye damage.
3.2/2 - Causes skin irritation.



Warning

3.8/3 - May cause respiratory irritation.

Prevention: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. **FIRST AID MEASURES: IF ON SKIN:** Wash with plenty of soap and water. **IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor/physician. Call a doctor/physician if you feel unwell. Specific treatment (see label). If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing and wash before reuse. **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up. **Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations. **Additional information:** Hazard designation "irritant" is only applicable after the addition of moisture/water. (alkaline reaction). The preparation is low in chromate. The addition of a reducing agent ensures that the Cr vi content of the product remains below 2ppm during the shelf life of the product. The effectiveness of chromate reduction depends on correct storage and the respect of the date of manufacture (pls. see point 7).

3 Composition/information on ingredients
Chemical characterisation

Description: Dangerous components: CAS: 65997-15-1 Cement, portland, chemicals EINECS: 266-043-4  Xi; R 37/38-41 Danger:  3.3/1, 3.2/2 Warning:  3.8/3

4 First aid measures

General information: Immediately remove any clothing soiled by the product. After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. After eye contact: Rinse opened eye for several minutes under running water and consult a doctor. After swallowing: Rinse out mouth and then drink plenty of water. Seek immediate medical advice. Information for doctor: If swallowed seek medical advice immediately and show the doctor packing or label.

5 Fire-fighting measures

Suitable extinguishing agents: Product does not burn, fire-extinguishing activities according to surrounding area. For safety reasons unsuitable extinguishing agents: Water with full jet. Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Avoid formation of dust. To avoid skin and eye contact, ensure adequate ventilation



Measures for environmental protection:
Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting:
Pick up mechanically.
Avoid formation of dust.

7 Handling and storage

Handling: Information for safe handling: Prevent formation of dust. To avoid skin and eye contact. **Information about fire - and explosion protection:** No special measures required. **Storage:** Requirements to be met by storerooms and receptacles: Store only in unopened original containers. Keep container tightly closed. Information about storage in a common storage facility: Do not store together with acids. Further information about storage conditions: Protect from humidity and water. Avoid dispersible dust. **Storage class:** 13.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data: see item 7. Ingredients with limit values that require monitoring at the workplace: 65997-15-1 Portland Cement, Chemicals (25-50%). WEL Long-term value: 10 mg/m3 inhalable dust, 4 mg/m3 respirable dust. **Additional information:** Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Do not eat, drink, smoke while working. Be sure to clean skin thoroughly after work and before breaks. Use skin protection cream for skin protection.



Respiratory protection:
Dust Mask



Eye protection:
Safety glasses

Protection of hands: Use gloves of stable material (e.g. Nitrile) - if necessary tricotized to improve the wearability. **Body protection:** Protective work clothing.

9 Physical and chemical properties

General Information - Form: Powder. **Colour:** Grey. **Odour:** Odourless. **Change in condition - Melting point/Melting range:** Undetermined. **Boiling point/Boiling range:** Undetermined. **Flash point:** Not applicable. **Self-igniting:** Product is not self-igniting. **Danger of explosion:** Product does not present an explosion hazard. **Density:** Not determined. **Solubility in/Miscibility with water:** Partly soluble. **Organic solvents:** 0.0% **Water:** 0.0% **Solids content:** 100%

10 Stability and reactivity

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications. **Materials to be avoided:** Avoid contact with acids. **Dangerous decomposition products:** No dangerous decomposition products known if handled and stored correctly.

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Strong irritant with the danger of severe eye injury. **Sensitisation:** Sensitisation possible through skin contact. **Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological information

General notes: Water hazard class 1: Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations
Product: Recommendation


Must not be disposed together with household waste.
Do not allow product to reach sewage system.
Remove in accordance with local official regulations

European waste catalogue: 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 13 14 waste concrete and concrete sludge. Uncleaned packaging: **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border), ADR/RID class: Item: No hazardous material as defined by the prescriptions.

15 Regulatory information

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.



Xi Irritant

Risk phrases: 37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

Safety phrases: 2 Keep out of the reach of children. 22 Do not breathe dust. 25 Avoid contact with eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 29 Do not empty into drains. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 46 If swallowed, seek medical advice immediately and show this container or label. **National regulations:**

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Relevant R-phrases 37/38 Irritating to respiratory system and skin. R41 Risk of serious damage to eyes. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road), RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail), GHS: Globally Harmonized System of Classification and Labeling of Chemicals.