

**1 Identification Of The Substance/Preparation and Company/Undertaking**

Name of preparation: Ultracrete M45 – Rapid Set Mortar  
 Company name: Instarmac Group plc  
 Address: Kingsbury Link, Trinity Road, Tamworth, B78 2EX  
 Tel. No.: 01827 872244

Emergency Tel. No: 07971 217 347

**2 Composition/Information on Ingredients Chemical Description:**

Consists of a mixture of cement powder with inorganic fillers with small quantities (<1%) of organic individual additives present in <0.1% w/w.

Ingredient	EINECS	ELINC	CAS	Classification	Content	Risks
Portland Cement	N/D	N/D	65997-15-1	Irritant (Xi)	<50%	R36/37/38, R41, R43
Other Inorganic Fillers (Including Silica Sand)	238-878-4	-	14808-60-7	None	>50%	R37

**3 Hazards Identification****Irritant**

When cement based powders are mixed with water or when they become damp a strong alkaline solution is produced, which can cause serious burns or ulcerations to the eyes or skin. Strong alkaline solutions tend to damage nerve endings in the skin so chemical burns can develop without pain being felt at the time. In addition, cement mortars can be irritant and cause allergic dermatitis. The dry powder contains silica dust that can cause silicosis and inhalation should be avoided.

**4 First-Aid Measures**

If contact with eyes seek medical attention immediately.  
**Inhalation:** If irritation occurs remove to fresh air, if nose/airways become inflamed, seek medical advice.  
**Skin:** Wash thoroughly with soap and water, remove contaminated clothing and launder before re-use. If irritation pain or other skin trouble occurs, seek medical advice.  
**Eye Contact:** Irrigate eyes with clean water for at least 15 minutes, obtain medical attention immediately.  
**Ingestion:** Do not induce vomiting, wash out mouth with water and give plenty of water to drink.

Eye wash station or means of irrigation should be readily available.

**5 Fire-Fighting Measures****Extinguishing media:****Suitable extinguishing**

**media:** Water or Foam extinguishers are suitable

**Unsuitable extinguishing**

**media:** None Specified

**Special exposure hazards arising from combustion including gaseous**

**by-products:** Product is not flammable and will not facilitate combustion with other materials.

**Special protective equipment**

**for fire fighters:** N/A

**6 Accidental Release Measures**

**Personal Precautions:** Wearing suitable personal protection (dust masks, gloves and goggles) as per section 8, recover spillage in dry state, if possible avoiding dust formation.

**Environmental precautions:** In accordance with local authority regulations, do not allow material into watercourses and drains.

**Methods for cleaning up:** Try to avoid build up of dust where possible. Vacuum removal if available is the most suitable. If product is hydrated, mechanical aids may be required to reduce manual handling risks.

**Exposure controls/Personal protection Refer to section 8**

**Disposal Considerations:** Should be disposed at a suitable landfill site in accordance with control of Pollution act 1974, Environmental Protection Act 1990 and local authority regulations. Addition of this product to water will give an alkaline solution, which may be toxic to aquatic life.

**7 Handling and Storage**

**Handling:** Should use in a well-ventilated area, appropriate personal protection should be used (as per section 8) wash hands after use.

**Storage:** Store in a dry place in temperature between 5°C – 25°C. Protect from frost.

**Specific use(s):** Standard cementitious product should be used in conjunction with safe working practices.

**8 Exposure controls/personal protection****Exposure limit values:**

Portland Cement OES 8Hr Time Weighted Average (TWA)  
10 mg/m<sup>3</sup> total inhalable dust  
4mg/m<sup>3</sup> respirable dust

Silica Sand OES 8Hr Time Weighted Average (TWA)  
0.3 mg/m<sup>3</sup> respirable dust

**Exposure controls:** Suitable gloves should be worn to prevent skin contact; if dust formation is likely, a suitable dust mask should be worn. If splashing is possible, goggles should be worn.

**Occupational exposure controls**

**Respiratory protection:** Use dust mask which will resist respirable dust, set out in the MSDS as per exposure limits in well-ventilated area. (Always follow dust mask manufacturers instructions and ensure exposure limit is not beyond the tolerance of the mask). If using in low atmosphere or poorly ventilated area consider use of respirator. A risk assessment may be required.

**Hand protection:** Impermeable or rubber based gloves capable of prevention of contact with skin should be worn. Glove must possess enough durability to prevent dermal exposure during the specific application (a risk assessment may be required.) If contact with skin occurs wash immediately with water. See Section 4

**Eye protection:** Dust proof goggles should be worn whenever there is risk of powder or water/powder mixture entering the eye.

**Skin protection:** Avoid all skin contact. Wear full length overalls to protect skin from splashes, remove all contaminated clothing and launder before re- use if contact with skin occurs consult section 4.

During light applications, face protection is not normally required however; the possibility of splashing does exist during mixing (a risk assessment may be required). Wash skin with water immediately after any contact with this product as per section 4.

**Environmental exposure controls:** Do not allow product to enter water courses or drains, dispose of surplus materials and packaging in accordance with local authority regulations.

**9 Physical and chemical properties**

<b>General Information:</b>	Appearance:	Grey Powder
	Odour:	Not Applicable
	Important health, safety and environmental information	
	pH:	Approximately 12-14 when mixed with water
	Boiling point/boiling range:	N/A
	Flash point:	N/A
	Flammability (solid/gas):	N/A
	Explosive properties:	N/A
	Oxidising properties:	N/A
	Vapour pressure:	N/A
	Relative density:	1.6-2.0g/cm <sup>3</sup> approximately
	Solubility:	N/A
	Partition coefficient: n-octanol/water:	N/A
	Viscosity:	N/A
	Vapour density:	N/A
	Evaporation rate:	N/A

**10 Stability and reactivity**

<b>Conditions to avoid:</b>	Storage in wet conditions may lead to premature hydration of the product. Exposed skin when wet.
<b>Materials to avoid:</b>	Avoid strong acids and alkalis
<b>Hazardous decomposition products:</b>	N/A
<b>Need for and the presence of stabilisers:</b>	N/A
<b>Possibility of hazardous exothermic reaction:</b>	N/A
<b>Safety significance, if any, of change in physical appearance of the material:</b>	Potency of irritation increases during mixing with water and before curing.
<b>Possibility of degradation to unstable products:</b>	None

**11 Toxicological information**

<b>Acute toxicity (oral, inhalation or dermal):</b>	N/A
<b>Corrosivity/irritation (eye, skin, respiratory tract):</b>	
<b>Eye:</b>	Severe eye irritant mild exposure can cause soreness; gross exposures or untreated mild exposure can lead to chemical burning and ulceration of the eye.
<b>Respiratory Tract:</b>	Inhalation may cause inflammation of mucus membranes. Harmful by inhalation
<b>Sensitisation (skin, respiratory):</b>	
<b>Skin:</b>	Powder may cause irritant contact dermatitis, allergic (chromium) dermatitis and/or burns.
<b>Repeated-dose toxicity:</b>	Repeated exposure in excess of the OES has been linked with Rhinitis, coughing and silicosis. Skin exposure has been linked to allergic (chromium) dermatitis and/or burns. Allergic dermatitis more commonly arises from contact with cement/water mixture than dry cement.
<b>Mutagenicity:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Reproductive toxicity (fertility, developmental):</b>	N/A

**12 Ecological Information**

**Ecotoxicity:** LC50 Aquatic Toxicity Rating not determined

**Mobility:** N/A

**Persistence & degradability:** N/A

**Bio-accumulative potential:** N/A


**Other adverse affects:** The addition of cements to water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.

**13 Disposal**

**Considerations:** Dispose of empty containers or surplus product to a place authorised to accept builder's waste. Keep out of reach of children. Observe local/state/federal regulations.

**14 Transport information:** Classification for conveyance not required.

**15 Regulatory information:**

<p><b>Classification:</b> R36/37/38 R41 R43 S22 S24/25 S26  S29 S36/37/39</p>	<p>Xi Irritant  Irritating to Eyes, respiratory system and skin. Risk of Serious Damage to Eyes. May cause sensitisation by skin contact. Do not breathe dust Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains Wear suitable protective clothing/suitable gloves and eye/face protection</p>
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**16 Other Information**

**Training advise:** If any further information is required contact Instarmac Group plc

**Recommended**

**restrictions on use:** Should always be used in accordance with material data sheet.

**Further information:** (written references and/or technical contact point); Contact Instarmac Group for further information.

**Sources of key data used to compile the data sheet:** Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 The Compilation of Safety Data Sheets (Third Edition) Control of Substances Hazardous to Health (Regulations) 1998 Manual Handling Operation Regulations 1992 Information collated from raw materials suppliers. EH40/2002

Users of products supplied by Instarmac Group plc should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied to Instarmac Group plc's general conditions of sale.