

Statutory basis: COSHH 2002 regs 6, 7 and 11 with HSE ACOP L5 (6th edition, 2013) for cementitious powders, wet cement, and epoxy resins and hardeners; workplace exposure limits in EH40/2005 Workplace exposure limits (4th edition, 2020), including respirable crystalline silica. PUWER 1998 regs 4, 5 and 9 for mixing drills and paddles. Manual Handling Operations Regulations 1992 reg 4 for bags and buckets. CDM 2015 regs 13 and 15. This document is the recorded safe system of work required by HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Mixing of cementitious tile adhesives, grouts and levelling compounds from powder, and of two-part epoxy adhesives and grouts, at a mixing station for flooring and tiling work: siting the station, opening and tipping bags, paddle mixing, moving mixed material to the workface, cleaning tools, and disposing of wash water and residues.

This document does not cover: fixing and grouting at the workface (KD-RAMS-FL-004), pumped and hand-laid screeds (KD-RAMS-AF-003), resin floor systems (KD-RAMS-FL-003 and KD-RA-FO-002), and substrate preparation by grinding (KD-RAMS-FL-003).

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Dust from opening and tipping bags of powder

At risk: Operatives, others near the station

Controls: Cementitious powders give off inhalable dust and, where they contain sand or fillers, respirable crystalline silica, which has a workplace exposure limit of 0.1 mg/m³ (8-hour TWA) in EH40/2005 Workplace exposure limits (4th edition, 2020). Low-dust formulations where the specification allows; water into the bucket first, bags cut low and emptied slowly into it, not dropped from height; empty bags folded into a waste sack, not shaken. RPE (FFP3, face-fit tested) during tipping and mixing where the COSHH assessment finds dust is not adequately controlled otherwise.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Wet cement burns

At risk: Operatives

Controls: Wet cementitious adhesive, grout and levelling compound are strongly alkaline and can burn before it is felt — kneeling in wet material, and cement trapped inside gloves or boots, are the usual causes. Waterproof gloves with cuffs, waterproof knee pads, sleeves down; material on the skin washed off with clean water at once; wet clothing changed. Clean water at the station.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Allergic dermatitis from cement and epoxy

At risk: Operatives

Controls: Cement products used within the storage period marked on the bag — after it, the chromate reducer loses its effect. Gloves selected from the safety data sheet and changed when damaged or wet inside. Skin washed with soap and water before breaks, never with solvents or abrasive hand cleaners. Skin checks by a responsible person as the COSHH assessment sets; redness, cracking or itching on the hands reported early and referred to occupational health.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Epoxy resins and amine hardeners — skin sensitisation

At risk: Operatives

Controls: Two-part epoxy adhesives and grouts are sensitisers: once sensitised, a person can react to very small contact from then on. Gloves to the data sheet and no skin contact at all; mixing on a tray; tools cleaned with the product's specified cleaner; contaminated gloves binned, not reused. Whole gloves mixed as supplied, and only what can be used within the pot life.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Paddle mixer kickback and entanglement

At risk: Operatives

Controls: A mixing drill suited to the paddle and batch size (PUWER 1998), with two handles or a side handle, used at slow speed. The bucket stands on the floor held by a stand or the operative's feet, never a hand; the paddle is kept below the surface and started and stopped in the material; the drill is stopped before the paddle is lifted out. No loose cuffs, glove ends or hair near the paddle. 110 V or battery tools; leads checked and kept away from water.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

6. Manual handling of bags and mixed buckets

At risk: Operatives

Controls: Bags stored close to the station on raised pallets so they are not lifted from the floor; trolleys to move stock; mixed buckets filled only to a weight that can be carried safely, and moved on a trolley where the route allows; two people for heavier loads (Manual Handling Operations Regulations 1992).

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

7. Splashes to the eyes from mixing

At risk: Operatives

Controls: Goggles during tipping and mixing, when the paddle throws material. An eyewash bottle or station at the mixing point; a splash of cement or epoxy is irrigated with clean water at once and medical advice sought.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

8. Slips, trips and housekeeping

At risk: Everyone in the work area

Controls: Keep the workplace clear, remove waste and offcuts as they are created, route leads at high level or under mats, and maintain task lighting.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

9. Wash water and residues reaching drains

At risk: The environment

Controls: Tools and paddles are cleaned in a bucket, not under a running tap to a sink or gully. Cementitious wash water is left to settle; settled water is still alkaline and never goes to a surface water drain — it is disposed of as the site's waste arrangements allow, and the solids left to set and binned. Epoxy residues and contaminated containers go to the waste stream the COSHH assessment names.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL H/...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- 1 Have the safety data sheet for every powder and epoxy product on site and confirm the COSHH assessment covers the mixing station, RPE, gloves and skin checks.
- 2 Site the station close to the workface, off walkways, ventilated, on sheeting or a tray, with clean water, an eyewash and waste sacks to hand; check bag dates.
- 3 Check the mixing drill, paddle, leads and plug before use — 110 V or battery, side handle fitted.
- 4 Put on goggles, waterproof gloves, knee pads, and RPE where the assessment requires it.
- 5 Cementitious products: put the measured water in the bucket first, cut the bag low and empty it slowly into the water; fold the empty bag into the sack.
- 6 Mix at slow speed with the paddle below the surface and the bucket held by a stand or feet; stop the drill before lifting the paddle out.
- 7 Epoxy products: mix whole units as supplied, hardener into resin as the data sheet directs, on the tray; mix only what can be used within the pot life.
- 8 Move mixed material to the workface in part-filled buckets or on a trolley.
- 9 Stop if material gets into eyes, onto skin inside gloves or through clothing, or if the mixer develops a fault; wash, give first aid and report before carrying on.
- 10 Clean paddles and tools in a bucket after each batch; settle wash water; bin set solids and consign epoxy waste; wash hands before breaks.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

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5 PLANT, EQUIPMENT AND MATERIALS

- | | |
|---|---|
| Slow-speed mixing drill with side handle (110 V or battery) | Eyewash bottle or station and clean water |
| Mixing paddles, buckets and bucket stand | Trolley |
| Sheeting or mixing tray | Waste sacks and settlement bucket |

INSPECTION / THOROUGH EXAMINATION REFS

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COSHH ASSESSMENT REFS

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6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- Head protection
- Safety footwear
- High visibility
- Gloves — task-rated
- Eye protection
- Hearing protection
- Goggles for mixing
- Waterproof gloves with cuffs
- Waterproof knee pads
- FFP3 RPE where the assessment requires — face-fit tested

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED

7 PERMITS REQUIRED BEFORE THIS WORK STARTS

No permit is normally required for this activity. The site's own rules may still require one — check before starting, and record any permit issued below.
PERMITS ISSUED FOR THIS WORK (OR NONE)

8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE

FIRST AIDER AND LOCATION	NEAREST A&E	ASSEMBLY POINT
HOW THE ALARM IS RAISED	EMERGENCY ACCESS FOR THIS WORK AREA	SPILL / ENVIRONMENTAL RESPONSE

9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME	ROLE / COMPETENCE	COMPANY	SIGNATURE	DATE	TIME
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Accepted for the site by — principal contractor or site manager review.

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME
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Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-09-11	first-issue	First issue.	— not yet approved —
A0	2026-09-11	review	Approved for issue by the author. Content unchanged from the reviewed draft; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.