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Terminate waterproofing at pile heads: prime, fillet, seal

Terminate waterproofing at pile heads with an interactive checklist. Commentable, photo-evidenced steps for priming, fillets, sealing, and protection. Export as PDF/Excel easily.

Project:	
Date:	
Filled by:	

Pre-Work Checks	
1	Confirm latest approved detail for pile head terminations and document control.
2	Verify materials are compatible: primer, fillet compound, sealant, termination bar, fixings; capture manufacturer confirmation and batch numbers.
3	Record ambient/substrate conditions with thermometer and hygrometer; ensure substrate temperature ≥ 5 °C and ≥ 3 °C above dew point; RH ≤ manufacturer limit; photo readings.
4	Isolate the work area, set PPE (gloves, goggles, respirators if required), and establish fall/edge protection; photo of barriers.

Surface Preparation	
5	Mechanically abrade pile head and adjacent interface (100–150 mm band) using grinder or scarifier; remove laitance and weak material; evidence: debris removed, close-up photos.
6	Clean surface by vacuum and solvent wipe (compatible) to remove dust/contaminants; acceptance: no loose dust, oil, or standing water; photo of clean substrate.
7	Check surface moisture with concrete moisture meter; acceptance: ≤ 5% or per manufacturer; log reading and meter calibration photo.

Priming	
8	Stir primer per datasheet; apply by brush/roller to coverage achieving uniform, continuous film without puddles; record batch/expiry and coverage area; photos of wet edge.
9	Allow primer to cure to specified tack-free state; verify by touch-test (no transfer) within datasheet window; record start/finish times and ambient conditions.

Fillet/Cove Formation	
10	Form 45° fillet at slab–pile junction using non-shrink repair mortar or epoxy mastic; target radius 20–30 mm; gauge with radius tool; photo and measurements.
11	Finish fillet smooth, free of voids; cure as recommended; acceptance: no cracks/voids > 2 mm; record curing method and time.

Sealant Termination	
12	Mask edges; gun compatible elastomeric sealant over primed fillet/interface; tool to 2–3 mm thick, 25–40 mm wide band; photos before/after tooling.
13	Where specified, fix termination bar around pile perimeter; stainless or galvanized; fasteners at 150 mm centres, 25–35 mm embedment; verify torque and spacing; photo with scale.
14	Apply sealant bead atop termination bar and fastener heads; ensure continuous, pinhole-free coverage; acceptance: no gaps; close-up photos.
15	Conduct simple adhesion check (field tack-pull at offcut/edge) without damaging work; acceptance: cohesive failure preferred; log observation and time.

Protection and Cover	
16	Install compatible protection collar/board around termination (e.g., HDPE or fiber cement) bonded or clipped; maintain clearance to avoid compression of sealant; photos.
17	Prevent early loading or backfill until sealant cures; observe datasheet cure time; signage installed; record hold period start/finish.
18	Seal temporary penetrations or formwork tie holes within 150 mm of termination; compatible sealant/plug; photo evidence and material batch logged.

Inspection & Documentation	
19	Capture as-built photos: overall pile head, close-ups of fillet, sealant band, termination bar, and protection; include scale/label in frame.
20	Record all product names, batch numbers, quantities, application times, weather, and crew; attach delivery dockets and SDS references.
21	Obtain supervisor/inspector sign-off per approved project specifications and authority requirements; upload signatures and QR-authenticated export to document control.
22	Tag pile ID and location on plan; update punch-list items and close any comments with photo evidence before releasing area.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Terminate waterproofing at pile heads is a focused activity ensuring clean, primed, filleted, sealed, and protected terminations at each pile interface. This checklist zeroes in on pile head waterproofing termination details, including primer selection, cove fillets, termination bars, and protective measures, while explicitly excluding installation of general membranes. Executed correctly, it prevents water ingress, freeze–thaw damage, steel corrosion, and premature deterioration at the slab–pile junction. You will confirm substrate condition, apply compatible primer, form a consistent fillet, install a robust sealant band or termination bar detail, and protect the termination from construction traffic and backfill. Outcomes include durable, inspectable terminations with photo evidence, logged batch numbers, and traceable approvals per approved project specifications and authority requirements. Use this interactive checklist on mobile or tablet: tick items as completed, leave comments for issues, attach photos for verification, and export your record as PDF/Excel with a secured QR for sign-off.	1. Preparation: Gather primer, fillet compound, compatible sealant, termination bar, fixings, grinder, vacuum, moisture meter, masking, PPE, and a camera. Brief the crew on sequence and hold points; set up safe access and lighting. 2. Open the checklist on your device, scan the QR for the work area, and create a new entry per pile ID. Add drawings, manufacturer details, and any method statements as attachments. 3. Using the Interactive Checklist: Progress item by item, ticking when complete. Enter readings (moisture, temperature), upload photos, and log batch numbers. Use comments to flag defects and assign actions with due dates. 4. Tag evidence: Label photos with pile ID and measurement scales. Use the app’s annotation to highlight fillet radius, sealant width, and fastener spacing for quick acceptance by inspectors. 5. Export: Generate an export as PDF/Excel including checkmarks, comments, photos, and timestamps. Share with the site engineer, waterproofing specialist, and quality manager for review. 6. Sign-Off: Capture digital signatures from the supervisor and inspector. Archive the QR-authenticated export in the project document control system and update the register to release the area for covering.