



FACILITYSPEC™ • AR • 4 ZONES • 5 STRESSORS • 7 MODULES



FacilitySpec™

Arenas & Rec Centres

Built around the building, not the catalogue.

Arenas do not fall apart because people stop cleaning.
They fall apart when the program does not match the
building.

AR

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Program

FacilitySpec™ • Arenas &
Rec Centres
Module code AR • 2026
edition

Emergency

CANUTEC 1-613-996-
6666

Documents

SDS and technical
bulletins are available on
request and are never
gated.

About this guide

FacilitySpec™ is Chem International's facility-type program: a chemistry and operating framework built around the way a particular kind of building actually runs. This edition covers arenas and recreation centres.

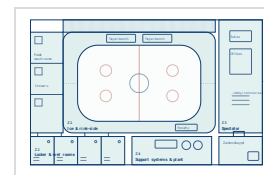
FacilitySpec™ treats the arena as a set of operating zones with different soils, surfaces, and risks — rink-side rubber and belting, wet locker-room surfaces, spectator and concourse finishes, and the support systems behind them: entries, exterior ice control, drains, glycol and boiler loops, and scheduled recovery work.

The guide is organized in seven modules. An overview sets out the four operating zones and the five stressors that define arena soils. Four zone modules each carry a chemistry cabinet, a task-to-product map sheet, and the decision that matters most in that zone. An operations module sets the cadence and the seasonal rhythm. A playbook module closes with a quick selector, a scorecard, and a rollout checklist.

How to read the chemistry cabinets

Each cabinet is shelved by tier. **Daily** is the default route every shift works from. **Escalation** is corrective chemistry, scheduled and supervisor-controlled. **Controlled** is industrial or restricted chemistry for trained use only. Colour dots mark the catalogue section a product lives in; underlined product names link to the product page on chemintonline.com. Product names are shown exactly as they appear in the Chem International catalogue.

Use this guide with current SDS, label directions, site procedures, training, PPE, and applicable regulations. Do not mix chemicals unless the label explicitly directs it. This guide is not a dosing manual.



■ PROGRAM AT A GLANCE

*4 zones • 5 stressors •
7 modules • 38
cabinet entries*

Executive summary

AR

Arenas do not fall apart because people stop cleaning. They fall apart when the program does not match the building. Ice facilities are punishing environments where tracked-in salt, humidity swings, rubber abrasion, rapid event turnover, and hidden mechanical complexity collide every single day. A generic janitorial program loses that fight fast.

FacilitySpec™ treats the arena as a set of operating zones with different soils, surfaces, and risks — rink-side rubber and belting, wet locker-room surfaces, spectator and concourse finishes, and the support systems behind them: entries, exterior ice control, drains, glycol and boiler loops, and scheduled recovery work. Each zone gets its own chemistry cabinet — shelved by daily, escalation, and controlled tiers — a task-to-product map, and the one decision that keeps the zone stable over a full season. Behind the zones sits an operating cadence tuned to storms, bookings, dark windows, and the ice season, and a manager-level oversight rhythm for the plant.

The result is a program the building can actually sustain: better traction and less salt haze rink-side; cleaner washrooms with lower odour; faster event reset in the public zones; and fewer mechanical surprises.

Key highlights

- A generic janitorial program is the wrong fit for arenas: tracked-in salt, rubber abrasion, humidity swings, rapid turnover, and hidden mechanical complexity collide every day.
 - The building is four operating zones, not one: rink-side rubber and belting, wet locker-room surfaces, spectator finishes, and the support systems behind them.
 - Daily route and targeted intervention stay separate: NeutraClean vs Salt Rinse, ShipShape vs Chemsol. Salt residue and scale are special soils, not stronger-cleaner problems.
 - Schedule around the building's rhythm, not the clock: storms trigger salt intervention, events trigger spot response, dark windows trigger restoration — and the plant needs an escalation path.
-

Why arenas break down – and how operators stay ahead of it

■ SECTION 01 • PROGRAM OVERVIEW

Four operating zones. One program.

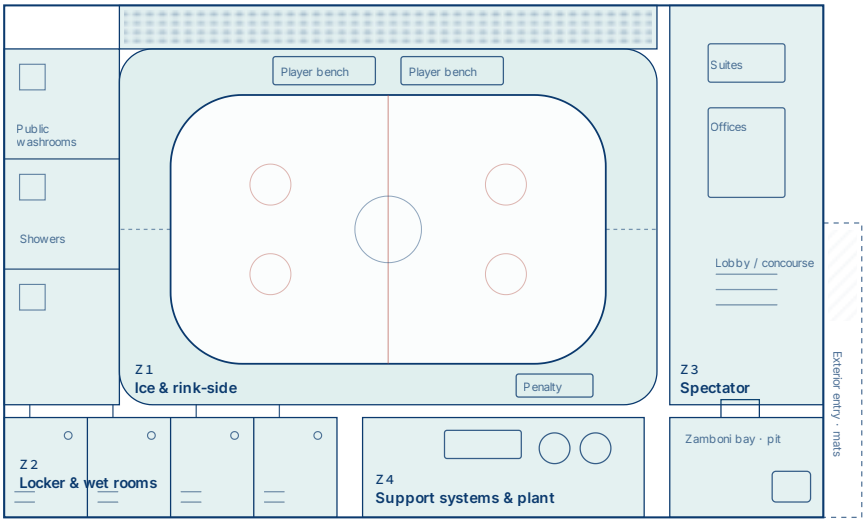
Ice facilities are punishing environments where tracked-in salt, humidity swings, rubber abrasion, rapid event turnover, and hidden mechanical complexity collide every single day. A generic janitorial program loses that fight fast.

“Arenas do not fall apart because people stop cleaning. They fall apart when the program does not match the building.”

Exhibit 1

Four operating zones – one program

Z1 Ice & rink-side Salt · rubber · traction	8
Z2 Locker rooms & wet zones Scale · scum · odour · hygiene	8
Z3 Spectator & common areas Appearance under heavy traffic	13
Z4 Support systems & plant Exterior · drains · plant · seasonal	9



Counts = cabinet entries in the module. Hatched strip = exterior entry and matting; dashed line = site boundary.

Schematic plan. Zone boundaries are illustrative and should be mapped to the actual facility before rollout.

Source: Chem International FacilitySpec™

What the program has to survive

FacilitySpec™ treats the arena as a set of operating zones with different soils, surfaces, and risks — rink-side rubber and belting, wet locker-room surfaces, spectator and concourse finishes, and the support systems behind them: entries, exterior ice control, drains, glycol and boiler loops, and scheduled recovery work.

“A generic janitorial program loses that fight fast.”

Exhibit 2

Five stressors that define arena soils

STRESSOR 01	STRESSOR 02	STRESSOR 03	STRESSOR 04	STRESSOR 05
Salt & ice-melt residue	Rubber & belting abuse	Rapid turnover	Humidity & temperature swings	Mechanical complexity
Salt gets tracked inside and leaves dull white film, traction issues, and corrosion pressure on fixtures and equipment. It is the defining arena soil.	Dressing-room corridors, bench areas, and rink-side routes take constant punishment from grit, blade guards, hockey bags, boots, and road salt.	Public skate, practice, game, tournament, special event — sometimes in the same day. The route has to be fast, repeatable, and easy to train.	The temperature difference between rink-side and heated spaces drives condensation, odour pressure, soap scum, and microbial growth in wet rooms.	Boilers, closed loops, glycol systems, cooling equipment, and water treatment all require a monitoring rhythm. Waiting for failure is not a strategy.

Each stressor maps to at least one zone module; salt residue (Stressor 01) is the defining arena soil and drives the Zone 1 escalation logic. Source: Chem International FacilitySpec™

NON-NEGOTIABLES

Follow SDS and label directions for every product. **Do not mix chemicals** unless the label explicitly directs it. Train staff to measured dilution, pads, brushes, vacs, scrubbers, and extraction equipment. Control wet-floor risk with barriers and sequencing. Keep acids, disinfectants, and industrial degreasers in their own lanes. Dry and reopen one manageable zone at a time.

Working from a complaint, not a plan?

The Quick Selector starts with the symptom — “the concourse still has that white film” — and points to the right first move.

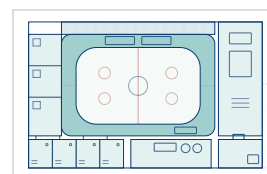
Quick Selector · page 19

Ice & Rink-Side

■ SECTION 02 • ZONE 1 • ICE, RINK-SIDE & SALT CONTROL

Rubber floors, bench areas, Zamboni bays, loading zones, and exterior winter response.

This zone is about two things: traction and residue control. Every rink-side surface — rubber mats, belting corridors, bench zones, boards, glass, and adjacent routes — lives under constant assault from tracked-in ice melt, grit, tape, moisture, and equipment movement.



RESULT

**Better traction,
less salt haze,
longer floor life**

“No white film. No greasy slurry. No neglected corners. No surfaces that look maintained but feel unsafe.”

Exhibit 3

The daily rhythm — rink-side

1 Dry remove Slush, grit, tape, debris first	2 Neutral clean The labelled daily route	3 Salt intervention Only when haze sets in	4 Protect rubber Thin-coat finish discipline
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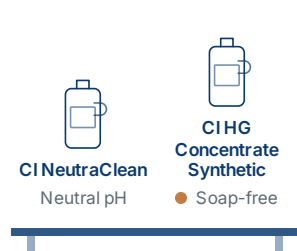
Step 3 is corrective and supervisor-controlled. Steps 1, 2 and 4 are the trained daily route.

Source: Chem International FacilitySpec™

THE CHEMISTRY CABINET • colour dot = the catalogue section each product lives in • underlined names link to the product page on chemintonline.com

DAILY — THE DEFAULT ROUTE

Two products. This is the shelf every shift works from.



ESCALATION — ONLY WHEN HAZE SETS IN

Salt residue is a special soil. Neutral chemistry dilutes it; this shelf breaks it.



CONTROLLED — BAY & SHOP, TRAINED USE ONLY

Industrial chemistry for oil, grease, wet concrete and winter slush. Not mop-bucket territory.

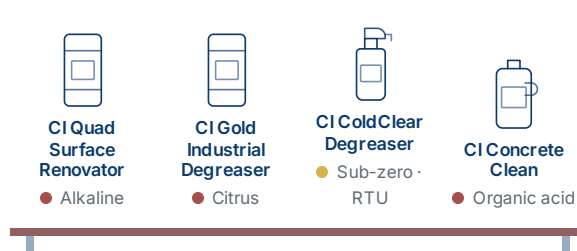


Exhibit 4

Sheet AR-02 · Ice, rink-side & salt control

SHEET AR-02	ZONE Ice, rink-side & salt control	STANDARD No white film · no greasy slurry · no unsafe surfaces	PRODUCTS 8
TASK / AREA · BEST-FIT PRODUCTS		WHY IT BELONGS · OPERATOR NOTE	
① Rink-side rubber & belting ☐ CI NeutraClean ☒ CI HG Concentrate Synthetic		Neutral daily maintenance protects finish integrity and removes routine soil without accelerating dulling or residue build-up. Dry-remove first. Do not wet-move grit and slush around the corridor and call that cleaning.	
② White salt film / tracked ice melt ☐ CI Salt Rinse		Salt residue is a special soil. Neutral cleaners dilute it; Salt Rinse is built to break the bond and lift it cleanly. No hot water. No mixing. Use a dedicated salt-recovery cycle rather than over-dosing the daily cleaner.	
③ Rubber finish recovery ☒ CI BlackMagic Hockey Floor Polish		Engineered specifically for black rubber and belting under arena traffic conditions, with salt resistance and self-polishing performance. Thin coats only. Stronger cleaner is not the fix for corridor dulling; correct finish and soil control are.	
④ Zamboni bay / snow-melt pit / loading ☒ CI Quad ☒ CI Gold Industrial Degreaser ☒ CI ColdClear ☒ CI Concrete Clean		These areas need controlled industrial chemistry for oil, grease, wet concrete, and winter slush — not ordinary floor-care chemistry. Train staff to use industrial products deliberately. This is not casual mop-bucket territory.	
⑤ Exterior winter response ☒ CI FrostShield ☒ CI Chemelt ☒ CI MeltDown ☒ CI SnowGlide ☒ CI InstaPatch		Outside failure becomes inside salt haze. Exterior anti-icing and de-icing reduce what enters the building in the first place. Pre-wet before storms, target refreeze, and protect snow-removal equipment. A disciplined outside program reduces interior recovery labour.	

Callouts on the section drawing correspond to the numbered rows. Product names follow the Chem International catalogue.

Source: Chem International FacilitySpec™

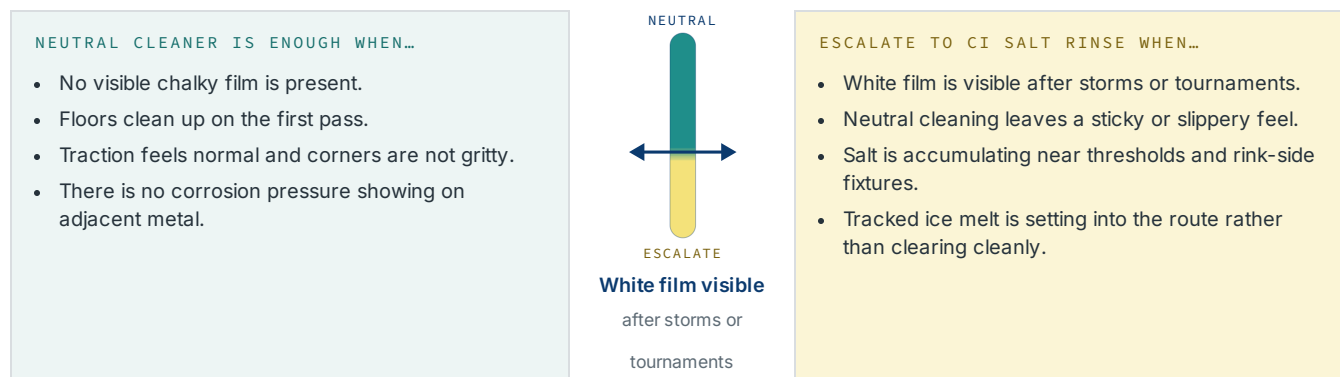
Salt Rinse is a distinct intervention, not a stronger cleaner.

Neutral chemistry dilutes salt residue and moves it around; a dedicated salt-recovery cycle breaks the bond and lifts it. The decision below tells a shift when to stay on the daily route and when to escalate.

“Stop here unless white film is visible.”

Exhibit 5

Neutral route or salt intervention?

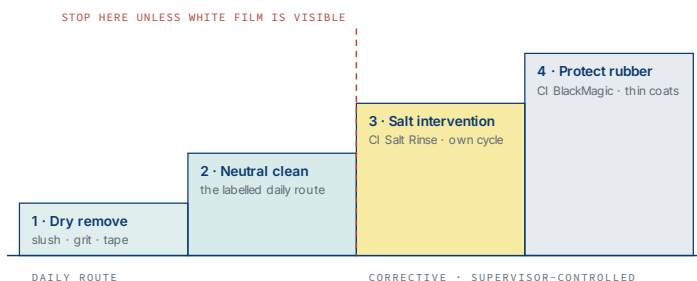


Escalation is a distinct cycle, not a stronger dose of the daily cleaner.

Source: Chem International FacilitySpec™

Exhibit 6

Dry → clean → escalate → protect.



TRAINING NOTE

CI Salt Rinse is a distinct intervention, not just a “stronger cleaner.” That distinction matters. Salt residue is not ordinary dirt — and treating it like ordinary dirt is how buildings stay stuck in recovery mode.

THE INSIDE-OUTSIDE CONNECTION

Your rink-side salt problem begins outside the building. Pre-wetting with CI FrostShield, smart CI Chemelt placement, correct matting, and fast slush removal at entries reduce the amount of Salt Rinse work the interior team has to do later.

Steps 1–2 are the daily route. Steps 3–4 are corrective and supervisor-controlled.

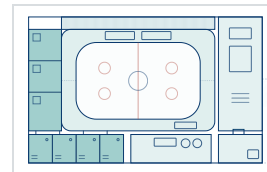
Source: Chem International FacilitySpec™

Locker Rooms & Wet Zones

■ SECTION 03 • ZONE 2 • LOCKER ROOMS, SHOWERS & WASHROOMS

Toilets, urinals, grout, showers, odour control, and hand hygiene.

Arena locker rooms and washrooms operate under relentless humidity and heavy use. These spaces accelerate mineral scale, soap scum, splash contamination, and persistent odour faster than most commercial settings.



RESULT

Cleaner
washrooms, lower
odour, fewer
chronic wet-room
failures

“Separate the daily route from the targeted intervention. That is what keeps the wet zone stable over a full season.”

Exhibit 7

The bowl-cleaner decision

DAILY DEFAULT: NON-ACID — CI SHIPSHAPE

- Best for routine toilet, urinal, and fixture cleaning.
- Safer on chrome, stainless, coloured fixtures, and everyday sensitive surfaces.
- Use this as the house standard unless scale has clearly moved beyond routine maintenance.



TARGETED INTERVENTION: ACID — CI CHEMSOL

- For mineral ring, rust staining, and hard-water deposits that non-acid chemistry will not remove.
- Supervisor-controlled escalation, not a daily default.
- Use with ventilation, PPE, and strict do-not-mix training.

Acid is the exception path. Keep it physically separate from daily route stock and train relief staff on it specifically.

Source: Chem International FacilitySpec™

■ ZONE 2 • LOCKER ROOMS, SHOWERS & WASHROOMS

THE CHEMISTRY CABINET • colour dot = the catalogue section each product lives in • underlined names link to the product page on chemintonline.com

DAILY DEFAULT – NON-ACID

The house standard unless scale has clearly moved beyond routine maintenance.

ESCALATION – SUPERVISOR-CONTROLLED

Scale, mineral ring, rust and soap scum that the daily route will not remove.

ODOUR & HAND HYGIENE

Screens on schedule, dispensers standardized and full.


CI ShipShape Non-Acid Bowl Cleaner
● Non-acid bowl cleaner


CI Chemsol Acid Bowl Cleaner
● Acid bowl cleaner


CI Ren-O-Grout
● Lime & soap-scum remover


CI Wave 360
● Bio-enzymatic urinal screen


CI InnoFoam Blue
Foam hand soap


CI Pearlized Hand Soap
● Bulk hand soap


CI White Liquid Hand Soap
● Bulk hand soap


CI FoamCare Hand Sanitizer
Alcohol-free foam

Exhibit 8

The wet-zone route

1 Dry remove first Hair, tape, litter, and loose debris come out before liquids go down.	2 Sinks, mirrors & touchpoints Front-facing touch surfaces first, before toilets and floors.	3 Toilets / urinals Run the daily non-acid route unless the room has been assigned to a scale-recovery cycle.	4 Showers & grout Let chemistry dwell. If every shower still needs brute-force scrubbing, the route or product fit is wrong.	5 Floors & drain edges last Leave the room dry, safe, and reset with supplies in place before reopen.
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Run in this order every time. Liquids go down only after loose debris is out; the room reopens dry and reset.

Source: Chem International FacilitySpec™

SURFACE CAUTIONS

CI Ren-O-Grout carries restrictions on marble, coloured grout, and polished aluminum. That is not a small detail. One wrong deployment can create permanent damage and turn a good route into a claims problem.

CONTROLLED PROGRAM ITEM

Pest control belongs in the facility program, but not on every cleaner's cart. Keep products like Eradicator, ProDefend 360, Special Agent 7, and WaspGuard manager-controlled and compliant with the site's IPM framework.

Exhibit 9

Sheet AR-03 • Locker rooms, showers & washrooms

SHEET AR-03	ZONE Locker rooms, showers & washrooms	STANDARD Daily route separated from targeted intervention	PRODUCTS 8
SHOWER • TILE • GROUT BENCH • DRAIN TOILET URINAL SINK • MIRROR SOAP • SANITIZER			
TASK / AREA • BEST-FIT PRODUCTS		WHY IT BELONGS • OPERATOR NOTE	
① Daily toilet / urinal / sink route ● CI ShipShape		Provides the safest practical daily maintenance path for routine restroom cleaning without deploying acid where it is not needed. Make this the default. Staff need one clear standard before they need exceptions.	
② Heavy mineral ring / rust / hard-water build-up ● CI Chemsol Acid Bowl Cleaner		Acid chemistry is the exception path when scale and staining are beyond the reach of a routine non-acid cleaner. Keep acids physically separate from the daily route stock. Train relief staff on this specifically.	
③ Showers, tile & grout scum ● CI Ren-O-Grout		Non-abrasive lime and soap-scum remover built for mineral and detergent film in arena showers and wet-room grout lines. Surface restrictions matter. Map your actual finishes before you deploy building-wide.	
④ Urinal splash & odour ● CI Wave 360		Bio-enzymatic anti-splash screen addresses odour at the source while reducing splash contamination onto floors and walls. Replace on schedule. A good screen left too long becomes a weak program, not a maintenance asset.	
⑤ Hand soap network CI InnoFoam Blue ● CI Pearlized Hand Soap ● CI White Liquid Hand Soap		Provides a practical foam-and-bulk handwashing network for staff and public washrooms depending on dispenser format and traffic load. Standardize dispenser types wherever possible. Mixed dispenser systems create refill failure.	
⑥ Alcohol-free sanitizer support CI FoamCare Hand Sanitizer		Alcohol-free foaming sanitizer option for frequent use by staff and the public where foam format and skin acceptance matter. Keep high-traffic dispensers full. Empty sanitizer points destroy trust faster than almost anything else in public areas.	

CI Ren-O-Grout carries surface restrictions (marble, coloured grout, polished aluminum). Map finishes before deploying building-wide.

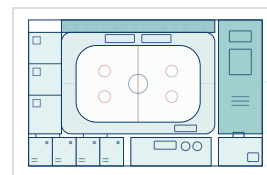
Source: Chem International FacilitySpec™

Spectator & Common Areas

■ SECTION 04 • ZONE 3 • SPECTATOR & COMMON AREAS

Lobbies, concourses, seating, suites, offices, carpets, dust, gum, and graffiti.

This is the zone the public judges. Lobbies, concourses, seating bowls, suites, offices, and carpeted spaces shape first impressions immediately. The right program here is not about chasing shine for its own sake.



RESULT

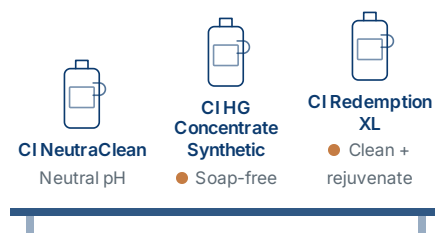
**Better appearance,
faster event reset,
less visible wear**

“Durable finishes. Fast spill response. Dust control. Recovery work that fits around bookings instead of fighting them.”

THE CHEMISTRY CABINET • colour dot = the catalogue section each product lives in • underlined names link to the product page on chemintonline.com

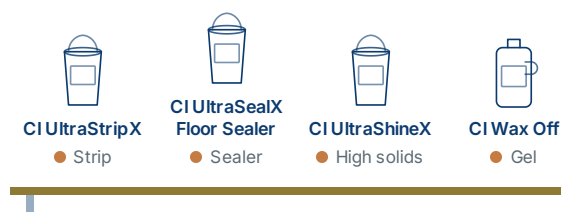
HARD FLOORS — DAILY LAYER

Routine concourse, lobby and public-area traffic lanes.



HARD FLOORS — RECOVERY LAYERS

Restoration chemistry for dark windows and off-season.



DUST, CARPET & UPHOLSTERY

Tool prep, spot response and the three-tier carpet program.



PUBLIC DAMAGE & EVENT SPOT RESPONSE

Freeze-and-scrape, clinging dwell.



Exhibit 10

Sheet AR-04 · Spectator & common areas

SHEET AR-04	ZONE Spectator & common areas	STANDARD Durable finishes · fast spill response · dust control	PRODUCTS 13
TASK / AREA · BEST-FIT PRODUCTS		WHY IT BELONGS · OPERATOR NOTE	
①	Concourse & lobby daily cleaning CI NeutraClean CI HG Concentrate	Neutral daily chemistry protects the finish and supports fast, repeatable event reset without residue. Use recovery chemistry only where needed. Do not turn the whole building into a restoration job every week.	
②	Traffic-lane appearance maintenance CI Redemption XL	Maintains and refreshes public-area floors between full strip-and-finish cycles. During season, traffic-lane maintenance should beat whole-building strip cycles every time.	
③	Dust across seating & ledges CI Dry Mop Treatment CI Dust Mop Treatment A / L	Controls airborne and migrated dust instead of redistributing it across public seating zones. Dust control is a tool-prep discipline, not just an afterthought to sweeping.	
④	Carpet spots / suites / offices CI CSR Shoot Out Spotter CI Carpet Pre-Spray Carpet Extraction Commander SoilGuard	Supports immediate stain response plus periodic deep fiber reset and post-clean protection. Spots that keep returning need extraction and protection, not another aerosol hit.	
⑤	Gum / wax / adhesives CI Spray n Freeze	Freeze-and-remove is faster, cleaner, and more complete than smearing gum deeper with solvent. Scrape after freeze. Do not rub the deposit into the seating substrate.	
⑥	Graffiti & marker damage CI Vandasol	Clinging dwell time improves performance on vertical graffiti surfaces compared with thin spray-on chemistry. Always pre-test. Public surfaces vary more than staff assume.	

Callout 4 sits on the suite / office inset (carpet). Pre-test graffiti removers on the exact surface.

Source: Chem International FacilitySpec™

Operations & Seasonal Rhythm

SECTION 05 • OPERATIONS & SEASONAL RHYTHM

Daily reset, between-booking response, deep-focus work, and ice-season transitions.

Arenas need a rhythm that matches actual building use, not a static schedule copied from a school or office. These facilities run on churn: pre-opening, active bookings, between-event resets, nightly recovery, weekly focus work, and seasonal transition periods where the entire soil profile changes.

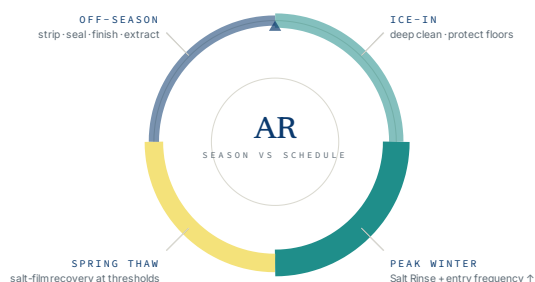
RESULT

Schedule around the building's rhythm, not the clock

“Do not schedule cleaning around the clock. Schedule it around the building's rhythm.”

Exhibit 11

Season vs. schedule



SEASONAL FOCUS POINTS

- **Ice-in:** deep clean all zones and protect floors before traffic builds.
- **Peak winter:** increase Salt Rinse and entry intervention frequency.
- **Spring thaw:** run salt-film recovery across thresholds, concourses, and bays.
- **Off-season:** strip, seal, finish, deep extract, and complete deferred recovery work.

COMMON SCHEDULING FAILURES

- Treating storm weeks like ordinary weeks.
- Doing appearance work when the building really needs salt recovery.
- Using nightly labour for tasks that belong in dark windows.
- Waiting for off-season to fix problems that are already creating daily risk.

The dial reads clockwise from ice-in. Arc weight indicates relative chemistry and labour intensity by season.

Source: Chem International FacilitySpec™

THE SCHEDULING PRINCIPLE

Storms trigger salt intervention. Events trigger rapid spot response. Dark windows trigger restoration. The arena tells you what it needs if the team is paying attention.

PRACTICALITY RULE

Schedule full strip-seal-finish work in dark windows, overnights, or off-season. During the season, public-area maintenance should focus on traffic-lane recovery — not big theatrical floor projects that fight the booking calendar.

The operating cadence

The building's rhythm reads down; the four zones read across. Shaded rows are the daily route. Yellow-edged rows are corrective and recovery work — scheduled and supervisor-controlled.

“Nightly reset is where tomorrow gets easier or harder.”

Exhibit 12

The operating cadence — zones by rhythm

RHYTHM ↓ · ZONE →	Z1 · ICE & RINK-SIDE	Z2 · LOCKER & WET ROOMS	Z3 · SPECTATOR & COMMON	Z4 · SUPPORT & PLANT	OPERATOR NOTE
Pre-opening / pre-event Entries, mats, washrooms, visible resets	Mats reset · slush and debris controlled	Washrooms presentation-ready	Spot-response stock positioned before the public arrives	Entries pre-wet before storms ● CI FrostShield	Start where people will judge the building first: entry, washroom, lobby, and front-facing routes.
During hours / between bookings Spot response, slush control, touch-up work	Tracked slush does not set	High-touch areas stay defensible · bins do not overflow	Gum and spills handled fast ● CI Spray n Freeze	Slush control at entries	The biggest failure here is waiting too long. Arena soils punish hesitation.
Close / nightly reset Traffic lanes, locker rooms, bays, chemical reset	Main routes swept and autoscrubbed CI NeutraClean	Wet zones reset ● CI ShipShape	Traffic lanes reset ● CI HG Concentrate	Bays made safe · dilution equipment ready for morning · daily logged plant visual	Nightly reset is where tomorrow gets easier or harder. That is the decision point.
Weekly deep focus Rubber corridors, showers, drains, suites, corners	Machine-scrubbed rubber corridors	Controlled grout and shower scum · clean drains ● CI Ren-O-Grout	Deeper suite / office attention where visible wear accumulates	Weekly deeper plant review · glycol visual	Weekly work should reduce recurrence, not just create a second version of daily work.
Monthly / 4–6 weeks Appearance maintenance, detailed edges, replacement cycles	Thin-coat finish cycle ● CI BlackMagic	Urinal screens and consumables replaced on schedule ● CI Wave 360	Traffic-lane recovery · vertical build-up removed · graffiti addressed ● CI Redemption XL ● CI Vandasol	Monthly management review of test kits and service records	If the same issue keeps coming back, the cadence is wrong or the daily route is under-built.
Seasonal transitions Ice-in, peak winter, thaw recovery, off-season restoration	Salt intervention increases in winter · deliberate thaw recovery CI Salt Rinse	Scale-recovery cycle where assigned ● CI Chemsol	Off-season windows handle the real restoration work ● CI UltraStripX	Ice-in deep clean · off-season deferred recovery work	The building changes with the season. The program has to change with it.

 Daily route — trained to every shift
 Corrective & recovery — scheduled, supervisor-controlled

Product chips indicate the anchor chemistry for that cell; full cabinets are in the zone modules.

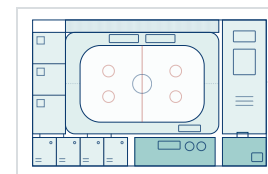
Source: Chem International FacilitySpec™

Mechanical & Water Treatment

■ SECTION 06 • ZONE 4 • MECHANICAL SYSTEMS & WATER TREATMENT

Boilers, chilled loops, glycol, cooling, water chemistry, and management-level oversight.

Arenas are mechanical buildings. A surface program that ignores water chemistry will eventually pay for it in downtime, corrosion, heat-transfer loss, and emergency repair. This is not a dosing manual — it is a management and operator oversight framework so the plant does not stay invisible until it fails. Operators should know what to watch and what to escalate, not improvise system treatment.



RESULT

**Fewer surprises,
lower downtime,
stronger seasonal
control**

*“Waiting for failure is
not a strategy.”*

Exhibit 13

Water treatment functions for the arena plant

FUNCTION	ROLE	CHEM INTERNATIONAL PRODUCTS	WHAT IT COVERS
Corrosion inhibition & boiler compounds	BOILER	CI WT No. 20, 25, 34, 36, 38	Nitrite-based and molybdate-based boiler compounds for scale and corrosion protection in boiler and closed-system environments.
	ALUMINUM	Aluminum Boiler Nitrite Treatment	Treatment option specifically aligned to aluminum boiler systems where chemistry fit matters.
Oxygen scavenging & condensate protection	O ₂ CONTROL	CI OS15 · CI OS100	Oxygen scavenging products for steam and hot-water applications where dissolved oxygen control matters.
	CONDENSATE	CI Corrosion Inhibitor No. 45 · CI No. 49	Condensate-line corrosion control and filming steam-system protection products.
Scale conditioning, cleaning & dispersants	DISPERSANT	CI PD90 · CI BD-86 · CI E40 · CI PBT 20	Phosphate, non-phosphate, chelant, and polymer treatment options for hardness control, dispersancy, and scale management.
	SPECIFIED	Descaling / Cleaning Support	Mechanical system descalers and cleaners should be specified to the plant, not improvised from general facility stock.
Cooling water, glycols & field testing	COOLING	CI Cooling Water Compound No. 87 / 98	Cooling-water treatment options for open or closed recirculating systems where applicable.
	GLYCOLS	CI H-55 · H150 · H250 · H6040	Propylene and ethylene glycol heat-transfer fluids at varying concentrations depending on system requirements.
	FIELD QA	Alkalinity · Nitrite · Orthophosphate · Sulfite Test Kits	Field verification support so the monitoring rhythm can actually be run and recorded on site.

Specified to the plant and supplied from the Water Treatment section. Underlined names open the section or product page on chemintonline.com.

Source: Chem International FacilitySpec™

What to watch, how often, and when to escalate

“Housekeeping chemistry is not plant chemistry. Keep restroom acids, drain products, and floor stock out of boilers, loops, feed tanks, and mechanical work.”

Operators do not need to diagnose chemistry to know a trend is wrong. The sheet sets a minimum rhythm for each system and names the point at which a small change becomes a plant review.

Exhibit 14

Sheet AR-06 • Manager-level oversight

SYSTEM / AREA	WHAT TO WATCH FOR	DAILY	WEEKLY	MONTHLY	MINIMUM RHYTHM	ESCALATE WHEN...
Boilers / closed heating loops	Pressure or temperature drift, visible leaks, unusual makeup water demand, corrosion staining, pump noise, alarms, or changed cycle behaviour.	●	●	○	Daily logged visual + weekly deeper review	Readings drift, leaks appear, or the system starts “behaving differently.” Operators do not need to diagnose chemistry to know the trend is wrong.
Chilled loops / process cooling	Scale, corrosion, treatment records, repeated topping up, contractor notes, and unexplained temperature instability.	○	●	○	Weekly	Cooling performance drops, chemistry reports are missing, or the loop suddenly needs attention it did not need before.
Glycol systems	Visible leaks, stained joints, concentration flags, unexplained pressure changes, freeze-risk concerns, and repeated make-up demand.	○	●	○	Weekly visual + contractor cadence	Any leak appears or freeze protection becomes uncertain. Closed glycol systems should not quietly consume inventory.
Cooling towers (if present)	Corrosion, scale, microbial pressure, bleed behaviour, water clarity, and treatment log currency.	○	●	●	Weekly to monthly per service cadence	Logs go stale, drift repeats, or water quality clearly worsens between visits.
Mechanical rooms / plant housekeeping	Leaks, cardboard storage, dust loading, blocked access, chemical spill residue, unreadable labels, oily floor spots.	●	○	○	Daily visual walk	The room starts looking like storage instead of plant support. Poor mechanical housekeeping usually signals drift elsewhere too.
Test kits / service records	Last sample date, next visit date, unresolved recommendations, and whether anyone can actually retrieve the history.	○	○	●	Monthly management review	No one can say what was last tested, what the results were, or what corrective action remains open.

Oversight framework, not a dosing manual. Filled circle = minimum check at that interval.

Source: Chem International FacilitySpec™

HARD RULE

Do not improvise plant chemistry. If the arena needs water-treatment setup, oxygen scavenging, glycol management, or test-kit support, it should be treated as a plant program with service logic and documentation — not as a side task for whoever happens to be closest to the boiler room.

Playbooks & QA

■ SECTION 07 • PLAYBOOKS, QUICK SELECTOR & QA

Start with the symptom, verify the standard, then choose the right route.

This section is deliberately practical. The goal is to help supervisors and operators identify the right first move without turning the page into a technical manual.

“Use this module when the conversation starts with a complaint rather than a product request.”

Exhibit 15

Quick selector — start with the complaint

IF STAFF SAY...	IT'S PROBABLY A...	START WITH...
<i>“The concourse still has that white film after mopping.”</i>	Salt residue problem, not ordinary soil	CI Salt Rinse on a dedicated recovery cycle. Do not try to out-muscle it with more neutral cleaner.
<i>“The rubber corridors keep going dull.”</i>	Finish loss or wrong maintenance chemistry	Return to the daily neutral route, then restore with CI BlackMagic Hockey Floor Polish on a thin-coat cycle.
<i>“The showers still look dirty after we clean them.”</i>	Soap scum / mineral mismatch	CI Ren-O-Grout with correct dwell time and verified surface compatibility.
<i>“Toilet rings keep coming back.”</i>	Scale pressure beyond the daily non-acid route	Keep CI ShipShape as the default and use CI Chemsol as targeted acid escalation where scale recovery is actually required.
<i>“Gum keeps showing up in the seating area.”</i>	Public damage / event-response issue	CI Spray n Freeze Freeze the deposit, then scrape. Do not smear it deeper with solvent.
<i>“We’re getting a lot of graffiti in washrooms and entries.”</i>	Vertical dwell-time removal task	CI Vandasol with mandatory pre-testing on the exact surface before full deployment.
<i>“The building feels fine, but the plant is suddenly acting strange.”</i>	Mechanical trend shift, not a housekeeping issue	Escalate plant review immediately, log the drift, and verify service records and chemistry checks before a small change becomes downtime.

Start with the symptom, verify the standard, then choose the route. Product chips link to the product page.

Source: Chem International FacilitySpec™

Exhibit 16

Arena scorecard

CATEGORY	WHAT TO CHECK	PASS STANDARD
SAFETY		
Floors	Walk main traffic paths and entries	No slippery film. No tracked slush zones left untreated. Traction feels consistent.
Zamboni bay	Visual check of floor and drains	No oily slicks, no standing greasy slurry, and drains clearly functioning.
CLEANLINESS		
Washrooms	Fixtures, walls, floor, and air quality	Fixtures clean, no visible scale build-up, and no persistent odour on entry.
Locker rooms	Floors, showers, benches, drains	Showers and floors controlled, no heavy soap scum or slime, drains open and usable.
APPEARANCE		
Rubber floors	Visual sheen and surface feel	Consistent sheen, no powdering, and no white haze.
Concourse floors	Gloss consistency and salt film	Traffic lanes are visually uniform and free of chalky salt build-up.
Carpets / suites	Spot count and stain recurrence	Low visible spotting and no obvious recurring stains after cleaning.

Walk the building against the pass standard, not against yesterday's effort.

Source: Chem International FacilitySpec™

Exhibit 17

Starter rollout checklist

1 Standardize the daily route Choose the default hard-floor cleaner, the salt-recovery product, the daily restroom chemistry, and the public-area spot-response tools first.	2 Separate daily vs escalation chemistry NeutraClean vs Salt Rinse. ShipShape vs Chemsol. Daily maintenance vs recovery work should be obvious to every shift.	3 Build the entry strategy Matting, slush removal, exterior anti-icing, and targeted de-icing are part of the inside program, not separate from it.
4 Map hand hygiene & locker room inputs Soap, sanitizer, urinal screens, bench zones, and shower surfaces all need a clear replenishment and cleaning rhythm.	5 Give mechanical review an escalation path Drift, leak, noise, or record gaps should go somewhere specific — not disappear into hallway conversation.	6 Review by season Storm weeks, thaw weeks, and off-season windows require different labour and chemistry priorities. Review before the season changes, not after.

Work the six items in order; the daily route comes before any escalation chemistry is issued.

Source: Chem International FacilitySpec™

Exhibit 18

Program warning lights

Too many “special” products on one cart

When every situation becomes a judgment call, the team stops following the program.

Salt film returns immediately after cleaning

The entry strategy is failing or the building is using the wrong chemistry on the wrong soil.

Showers need force instead of chemistry

The route, dwell time, or product fit is wrong. Scrubbing harder is not a real system.

Staff can explain why each product exists

That is usually the sign the program is actually working rather than just being stored in the supply room.

Three red lights and one green. Red-edged cards signal a program that has drifted; the teal-edged card is the sign it is working.

Source: Chem International FacilitySpec™

Conclusion

Ice facilities are punishing environments where tracked-in salt, humidity swings, rubber abrasion, rapid event turnover, and hidden mechanical complexity collide every single day. A generic janitorial program loses that fight fast.

The answer is not more products on the cart. It is a program that matches the building: four zones with their own cabinets, a daily route kept separate from targeted intervention, a cadence set by storms, bookings, and dark windows, and a plant that is watched rather than discovered. When staff can explain why each product exists, the program is working.

“Built around the building, not the catalogue.”

Safety note: use this guide with current SDS, label directions, site procedures, training, PPE, and applicable regulations. Do not mix chemicals unless the label explicitly directs it. Product names follow the FacilitySpec™ source; linked names open the product page on chemintonline.com.

Need a site-specific arena program?

FacilitySpec™ can be translated into a building-specific operating sheet with zone assignments, product pairings, seasonal schedules, and mechanical oversight checkpoints for your exact facility.

Request an arena program • info@chemintonline.com

Call 1-800-665-7287

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What a site-specific program includes

1

Zone assignments

The four operating zones mapped to your actual floor plan, finishes, and entries.

2

Product pairings

Daily, escalation, and controlled tiers issued per zone, with SDS and label directions.

3

Seasonal schedules

Ice-in, peak winter, spring thaw, and off-season cadences set for your booking calendar.

4

Mechanical oversight checkpoints

Watch-for items, minimum rhythm, and an escalation path for boilers, loops, glycol, and records.

Product index

■ EVERY PRODUCT REFERENCED IN THIS GUIDE

Names as they appear in the Chem International catalogue. Underlined entries link to the product page or catalogue section on chemintonline.com.

Alkalinity · Nitrite · Orthophosphate · Sulfite Test Kits

Zone 4

Aluminum Boiler Nitrite Treatment

Zone 4

Carpet Extraction

Zone 3

CI BlackMagic Hockey Floor Polish

Operations · Zone 1

CI Carpet Pre-Spray

Zone 3

CI Chemelt

Zone 1

CI Chemsol Acid Bowl Cleaner

Operations · Zone 2

CI ColdClear Degreaser

Zone 1

CI Concrete Clean

Zone 1

CI Cooling Water Compound No. 87 / 98

Zone 4

CI Corrosion Inhibitor No. 45 · CI No. 49

Zone 4

CI CSR Shoot Out Spotter

Zone 3

CI Dry Mop Treatment

Zone 3

CI Dust Mop Treatment A / L

Zone 3

CI FoamCare Hand Sanitizer

Zone 2

CI FrostShield

Operations · Zone 1

CI Gold Industrial Degreaser

Zone 1

CI H-55 · H150 · H250 · H6040

Zone 4

CI HG Concentrate Synthetic

Operations · Zone 1 · Zone 3

CI InnoFoam Blue

Zone 2

CI InstaPatch

Zone 1

CI MeltDown

Zone 1

CI NeutraClean

Operations · Zone 1 · Zone 3

CI OS15 · CI OS100

Zone 4

CI PD90 · CI BD-86 · CI E40 · CI PBT 20

Zone 4

CI Pearlized Hand Soap

Zone 2

CI Quad Surface Renovator

Zone 1

CI Redemption XL

Operations · Zone 3

CI Ren-O-Grout

Operations · Zone 2

CI Salt Rinse

Operations · Zone 1

CI ShipShape Non-Acid Bowl Cleaner

Operations · Zone 2

CI SnowGlide

Zone 1

CI Spray n Freeze Gum & Wax Remover

Operations · Zone 3

CI UltraSealX Floor Sealer

Zone 3

CI UltraShineX

Zone 3

CI UltraStripX

Operations · Zone 3

CI Vandasol Graffiti Remover

Operations · Zone 3

CI Wave 360

Operations · Zone 2

CI Wax Off

Zone 3

CI White Liquid Hand Soap

Zone 2

CI WT No. 20, 25, 34, 36, 38

Zone 4

Commander SoilGuard

Zone 3

DeFoamer

Zone 3

Map sheets and the cadence table use short forms (CI Quad, CI ColdClear, CI HG Concentrate, CI BlackMagic, CI Chemsol, CI ShipShape, CI Vandasol, CI Spray n Freeze); this index lists the full catalogue names. Water treatment entries are specified to the plant. SDS and technical documents are available from Chem International on request and are never gated.



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Chem International is an Edmonton-based specialty chemical formulator and distributor serving institutional, municipal, and industrial customers across British Columbia, Alberta, and Saskatchewan since 1988.

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