SPORTS & COURT COATINGS

TopShield AC450-W

SINGLE-COMPONENT WATER-BASED SELF-CROSSLINKING ACRYLIC COATING

Rayson TopShield AC450-W is a single-component, water-based, self-crosslinking acrylic co-polymer coating for sports courts and decorative concrete and masonry surfaces, forming a stain-resistant, easy-to-clean film.

KEY PROPERTIES

- Excellent water resistance and outdoor durability
- Self-crosslinking film — stain-resistant and easy to clean
- Non-yellowing colour for interior and exterior use
- Single component, ready to use by brush or roller



Illustration — single pack. Pack size: see this data sheet.

MIX	COVERAGE	RECOAT	PACK SIZE	SERVICE
Ready to use	On request	On request	20 L	Project-specific
single component	technical team	technical team	plastic pail	confirm cure

01 RECOMMENDED USES

- Basketball, tennis and multi-purpose courts
- Playgrounds and recreational surfaces
- Decorative concrete, pavers and unglazed tiles
- Masonry and brick walls; roof tiles

02 SUITABLE SUBSTRATES

- Grey and decorative concrete
- Stone and limestone
- Unglazed tiles and pavers
- Roof tiles; masonry and brick walls

03 SYSTEM ROLE

RAYSON TOPSHIELD AC450-W COLOUR + LINE COATS	This product
RAYSON TOPSHIELD AC450-W BASE / CUSHION COATS	Per system
PREPARED COURT SUBSTRATE	Falls corrected, cracks repaired

Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

Technical data & application controls

Control the substrate, mix, application conditions and cure before handover.

SOURCE TECHNICAL DATA

SURFACE PREPARATION	Surface dry and clean; remove poorly adhered coatings, loose particles, dust, grease, oil, wax and biological growth. Fill, level, dry, sand and remove dust.
MIXING / DILUTION	Single component, ready to use; stir before application.
APPLICATION METHOD	Brush, roller.
COVERAGE	Available from the Rayson technical team on request.
APPLICATION CONDITIONS	Material 15–25 °C; ambient and surface above 10 °C and at least 5 °C above dew point.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Available from the Rayson technical team on request.
RECOAT INTERVAL	Available from the Rayson technical team on request.
FILM / THICKNESS	Build up in multiple thin coats to specified texture.
PACK SIZES	20 L plastic pail.
STORAGE	Store in a ventilated, cool area.
SHELF LIFE	Approximately 12 months unopened.

04 APPLICATION WORKFLOW

1. **Inspect** — Assess substrate and conditions
2. **Prepare** — Mechanical preparation and repairs
3. **Mix** — Full packs at correct ratio
4. **Apply** — Within application conditions
5. **Recoat** — Within the system window
6. **Cure** — Before return to service

Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Sports court colour system

1. Repair cracks/depressions and correct ponding
2. Apply minimum 2 coats in court colour scheme
3. Overcoat dull patches then apply line marking

Anti-slip recreational surface

1. Prime and texture with Rayson GripSafe AC620-W
2. Finish with Rayson TopShield AC450-W in selected colours

06 LIMITATIONS

- Material 15–25 °C; ambient and surface above 10 °C and 5 °C above dew point
- Surface dry, clean and free of loose paint, dust, grease, oil, wax and growth
- Allow generous cure before play; confirm drying and full cure with technical team
- Check falls and drainage before coating

07 HEALTH & SAFETY

Low-odour water-based product. Wear gloves and eye protection; ensure reasonable ventilation. Avoid skin and eye contact. Keep out of reach of children. Consult the Safety Data Sheet (in preparation) before use.

DISCLAIMER

The information in this data sheet is given in good faith and reflects typical values and general good practice. Because site conditions and workmanship are beyond our control, Rayson gives no warranty implied from this document; users should verify suitability for their specific application and confirm they are working from the current issue. For project-specific advice, contact the Rayson technical team.

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