



ARDEX WPM 429

Two Component UV Stable Polyurethane Traffic Deck Waterproofing Topcoat

Heavy duty wear & abrasion resistance

Multiple applications - for intermediate and exposed decks

UV stable, suitable for exposed areas

Good resistance to chemical attack from commonly found liquids in relevant applications

Compatible with ARDEX self levelling screed



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SPECIFICATION CLAUSE

All indicated areas shall be coated with ARDEX WPM 429 Two Component UV Stable Polyurethane Traffic Deck Waterproofing Topcoat manufactured by ARDEX and installed in accordance with the manufacturer's printed literature.

DESCRIPTION

ARDEX WPM 429 is a two component, abrasion resistant and trafficable, liquid applied, UV stable polyurethane waterproofing topcoat which is suitable for both internal and external applications. The system utilises a solvent free epoxy primer, an optional broadcast of aggregate and the solvent based UV stable polyurethane topcoat.

FEATURES & BENEFITS

- Heavy duty wear & abrasion resistance
- Multiple applications for intermediate and exposed decks
- UV stable, suitable for exposed areas
- Good resistance to chemical attack from commonly found liquids in relevant applications
- Excellent surface appearance in various colours
- Compatible with ARDEX heavy duty self levelling screed

APPLICATION RANGE

- Commercial car parks, turning areas and ramps
- Balconies, Walkways, Stadium, Helipads
- Roof decks
- Parking Garages, Plant rooms, Industrial floors
- Cold storage and food preparation areas

SUBSTRATE PREPARATION

ARDEX WPM 429 is primarily designed for application over concrete and cementitious screeds; application over old epoxy or polyurethane coatings is feasible after correct surface preparation.

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing

compounds and any other surface contaminants.

New concrete surfaces should ideally be at least 28 days old and with a moisture content of approx. 5%. Moisture checks should be carried out and cross referenced with the damp-proofing properties offered by using Ardex DPM or WPM 300.

Mechanically clean the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface. It is critical to achieve a well prepared substrate in order to ensure optimum adhesion between the new coating system and the existing floor.

Refurbishment of old floors or repairs in new floors must be done using a suitable repair mortar from the ARDEX range.

Once all repairs and surface preparation is complete vacuum clean the floor to remove all dust and laitance/debris

PRIMING

Prime the prepared floors using ARDEX epoxy primer at a consumption rate of 0.30m²/set. Whilst the primer is still wet broadcast the aggregate No.3 @ 0.25kg/ m² into the surface to provide an additional mechanical key to the wearing coat. In heavily trafficked areas like turning circles and ramps, the Aggregate No.3 should be applied at approx. 1.25kg/ m². Once the primed surface is dry remove all the loose aggregate no.3 from the surface to leave a rough textured clean surface. Consult the ARDEX solvent free epoxy primer technical data sheet for full details information.

DECORATIVE UV STABLE TOPCOAT

ARDEX WPM 429 shall be applied as the abrasion resistant UV stable top coat. The two component resin and hardener packs must be thoroughly premixed before application. Pour the resin (component A) into a container and add the hardener (component B) and mix for 2 to 3 minutes with a mechanical mixer paddle until a homogenous mix is achieved. Ensure the sides

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are scraped down and the edges of the bucket are fully mixed in. Do not attempt to split packs as these are pre-weighed to ensure accurate mixing ratio.

Apply the ARDEX WPM 429 immediately after mixing using a roller or airless spray at a coverage rate of 6.5m² per litre per coat on primed surfaces with no aggregate and at 4.5m² per litre per coat on anti-skid surfaces. Normally two coats will be required to ensure complete coverage of the aggregate and to provide a durable surface. The second coat should be applied after the first coat has dried (approx 12 hours) and within 24 hours. A further five days are required for chemical cure before opening to traffic after 7 days.

ARDEX WPM 429 TECHNICAL DATA

Wet properties	
Bond strength	Greater than internal cohesive concrete strength
Solids	> 45%
Application temperature	10 to 35°C
Drying times (~25°C and 50% RH)	2 to 3 hours
Maximum over-coating (time between layers)	24 hours
Full cure 5 days (~25°C and 50% RH)	5 days
Open to traffic	7 days
Service temperature	up to 75%
Cured Properties	
Tensile strength	>20 N/mm ² (ASTM D638)
Elongation	>10% (ASTM D638)
Tear resistance	28 N/mm ²
Shore A hardness	78 (ASTM D2240)
Pendulum hardness	73sec (DIN 53157)
Abrasion resistance	50mg (Taber Wheel)
Dry film thickness	Approx. 1mm with aggregate

CONSUMPTION & COVERAGE

Aggregate No.3 Approx. 0.25 – 1.25kg/m²

ARDEX WPM 429 Smooth – 60m²/set
 Anti skid – 30m²/set

PACKAGING

ARDEX WPM 429 is available in 18 kg set (part A 14.4 kg, part B 3.6 kg).

SHELF LIFE AND STORAGE

Goods are supplied on a pallet, which are shrink wrapped. Shelf life of approx 9 months if stored in its original palletised and shrink wrapped condition in a cool, dry warehouse.

SAFETY PRECAUTIONS

ARDEX WPM 429 contains epoxy and polyurethane resin polymers which may cause irritation if swallowed or when in contact with skin or eyes; seek immediate medical attention. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse effected areas thoroughly with running water. If fumes are inhaled, remove to fresh air, ensure breathing passages are clear, and rinse mouth with running water. If symptoms persist, seek medical advice. The Safety Datasheet is available upon request and online at www.ardex-quickseal.com

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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