ARDEX DECKGUARD

Waterproofing Deck Coating for Vehicular and Pedestrian Traffic Area

Multifunctional - flooring and waterproofing membrane

Fast drying topcoat - allows for foot trafficable within 3 hours

Easy application

Resistant to UV radiation and weathering

Good chemical resistance

High mechanical resistance and trafficability

Internal and external use

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ARDEX DeckGuard

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DESCRIPTION

ARDEX DeckGuard (ADG) System is a liquid, cold applied waterproofing deck coating consisting of polyurethane primer and basecoat and Polyaspartic topcoat that provides a durable and high mechanical strength and resistance. ARDEX DeckGuard system can be applied on uneven surfaces and is resistant to atmospheric agents, chemical agents, and weathering. ARDEX DeckGuard (ADG) System provides flooring that is easy to clean and maintain with good chemical resistant performance. Once dry, it forms a continuous waterproof membrane without joints or need for overlap or reinforcement.

ARDEX DeckGuard (ADG) System

ADG PU Primer: Medium viscosity, solvent-based, single-component polyurethane primer for bonding the waterproofing membrane to concrete. It also acts as a concrete sealer.

ADG PU Basecoat: Two-component, self-levelling, quick-drying elastomeric polyurethane waterproofing membrane.

ADG Polyaspartic Topcoat: Two-component, cold applied UV-resistant polyaspartic coating with enhanced hardness and high mechanical strength and resistance.

APPLICATION RANGE

- Flooring areas subject to vehicle & pedestrian traffic
- Resistant flooring that is easily decontaminated in the chemical & commercial kitchen
- Warehouses & mechanic workshops
- Decks, terraces, balconies, roofs

SUBSTRATE PREPARATION

Ensure that the substrate is hard, dry, solid and free of laitance, grease, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion. Remove all traces of varnish, waxes, fats, oils and similar contaminants prior to mechanical preparation.

Prepare substrate with specialist machinery, sanding, milling or blasting machine, depending on the state of the substrate. Vacuum the substrate. Carry out repair work and fill any holes and cracks using the most suitable ARDEX product. Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example, expansion joints). When applied on metal surfaces, sandblasting for cleaning/preparation.

APPLICATION SYSTEM

PRIMER

Prime the substrate with ADG PU Primer with a brush or roller. Temperature during application should be between 5°C to 35°C. Do not apply the product if the temperature is not in this range. Do not apply if relative humidity (RH) is above 85%.

BASECOAT

MXING AND APPLICATION

Thoroughly mix Part B using a low-speed mixer for at least 2-3 minutes. After mixing, pour Part B into Part A and continue mixing both components with the low-speed mixer for a minimum of 3 minutes until a consistent mixture is achieved. Use the mixed ADG PU basecoat immediately. Apply the mixed basecoat with a brush, roller, or notched trowel to achieve a recommended dry film thickness of 1.2 mm in a single application. A spike roller can be used to eliminate air bubbles if required. Light foot traffic is allowed after 24 hours. For vehicle traffic is only permitted after sealing with the ADG Polyaspartic Topcoat the next day. Ensure that the application temperature is between 5°C and 35°C.

TOPCOAT

MIXING

Stir the individual components of the ADG Polyaspartic Topcoat before mixing. Thoroughly mix the two components with a low speed mixer for a minimum of 3 minutes. Part of the mixture can be reintroduced into the hardener container to gather the remaining residues in the container. The mixture that has been reintroduced into the hardener container can be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures the product's consistency and that any residual resin remaining in the containers reacts.

After the two components have been mixed, use them immediately. ADG Polyaspartic Topcoat remains workable for 30 minutes at a temperature of 25°C.

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APPLICATION

The mixture's reduced pot life should be taken into account - it is necessary to organise the application without pauses.

1. Paint

Once components A and B are mixed, apply directly to the primed substrate using a rubber squeegee, completing the application with a medium nap roller to remove blemishes. The second layer should be applied as soon as the first is sufficiently cured (1.5 - 2.5 hours at 25°C and 35% R.H). Apply at least 2 coats.

2. Multi-Layer

Apply a finishing coat of ADG Polyaspartic Topcoat, using a rubber squeegee and short nap roller, to seal the surface and encapsulate the aggregate. Do not allow more than 18 hours to elapse between coats; otherwise, sanding will be required.

COVERAGE

ADG PU Primer:
Approximately 7 m²/kg

ADG PU Basecoat:
Approximately 1 kg/m²/mm

ADG Polyaspartic Topcoat:
Approximately 10 m²/L to achieve 100µm

LIMITATIONS

- Do not use ARDEX DeckGuard (ADG) System where ambient and/or substrate temperatures is below 5°C or above 30°C. Do not use where ambient humidity exceeds 80%.
- Do not apply ADG Polyaspartic Topcoat if moisture content of substrate is > 5%
- If pot life is exceeded the mixed product loses characteristics and should be disposed of.
- Curing time varies according to ambient and surface temperature and specially on air humidity.

All ARDEX products are manufactured subject to rigorous quality controls and procedures; however, if strict colour consistency is required, it is recommended to use products from the same batch.

TECHNICAL PROPERTIES

Property	Units	ADG PU Primer
Specific gravity		0.98 - 1.02
Solid	volume %	≤ 76%
Tack free time @ 25°C	hours	1.5 - 2.5
Dry time @ 25°C	hours	2.5 - 3.5
Application window	hours	4 - 48

Property	Units	ADG PU Base-coat
Specific gravity		1.05 - 1.10 g/cm³
Solid	weight %	≥ 99%
Mixing ratio	by weight	100 : 23.3
Curing time	hours	3 - 5 hours
Pot life	minutes	20 - 35
Recoat time	hours	max. 24
Light traffic	hours	after 24
Tensile strength	MPa	≥ 5.2
Elongation	%	≥ 310
Hardness	(Shore A)	90

Property	Units	ADG Polyaspartic Top-coat
Specific gravity		Part A : 1.14 Part B : 1.34
Solids	weight %	94% ± 6%
Mixing ratio	by volume	1 : 1 (part A : part B)
Recommend film thickness	DFT µm	70 - 300 µm
Tensile strength	MPa	≥ 8
Elongation	%	≥ 35
Hardness	Shore A	≥ 90
	Shore D	≥ 40
Tear strength	kN/m	60 kN/m
Abrasion	mg loss	60 mg

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Below data provided is based on testing tempreture and humidity of 25°C and 35% R.H		
Property	**Units**	**ADG Polyaspartic Top-coat**
Pot life	hours	1.5
Working time	hours	0.5
Open time	hours	1
Tack-free time	hours	1.5
Recoat time	hours	1.5 - 2
Foot traffic	hours	2 - 2.5
Sanding time	hours	18
Vehicle traffic	hours	24

PACKAGING

ADG PU Primer: 20 kg pail

ADG PU Basecoat: 17.3 kg set

ADG Polyaspartic Topcoat: 30 kg set

CLEANING

Clean tools and equipment immediately after use with solvents such as Xylene.

SHELF LIFE AND STORAGE

ADG PU Primer can be stored for up to 9 months in its original unopened packaging.

ADG PU Basecoat can be stored for up to 12 months in its original unopened packaging.

ADG Polyaspartic Topcoat can be stored for up to 12 months in its original unopened packaging.

All products should be stored in a dry place between 5°C and 35°C. Store protected from frost, direct sunlight, and heat sources.

PRECAUTIONS

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled). Toxic to aquatic life with long lasting effects. Do not breathe dust, fumes, gas, mist, vapour, spray. Wear protective gloves, protective clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Immediately remove all contaminated clothing. Rinse with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if easy and present to do so. Continue rinsing. Immediately get medical attention and/or call a POISONS CENTRE. Dispose of contents/ container to hazardous or special waste collection point, in accordance with local regulation. Contains isocyanites. May produce an allergic reaction. Additional information is in the Safety Data Sheet at www.ardex-quicseal.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 over site conditions and 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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