



ARDEX R 150 E

Multipurpose Solvent free Epoxy System

Versatile application

Clear or colour, available in a range of RAL colours

Excellent adhesion to wide range substrates

Easy application

Chemical and mechanical resistance

For interior application



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ARDEX R 150 E

Multipurpose Solvent free Epoxy System

DESCRIPTION

ARDEX R 150 E is a 2-component, solvent-free epoxy binder that provides excellent bond strength, good chemical and mechanical resistant. It is a multipurpose epoxy coating and system for various applications.

APPLICATION RANGE

- Primer
- Coating or sealer
- Self levelling

SUBSTRATE PREPARATION

The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate. The substrate must have a tensile strength greater than 1.5 N/mm². Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints).

NOTE: All construction joints, cracks and potholes shall be treated prior to the primer application in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 28 days. The maximum moisture content of the substrate should be < 5% measured by an accurate moisture meter.

APPLICATION SYSTEM

PRIMER

Prior to mixing, mechanically stir part A (resin) well, then add part B (Hardener) and mix both thoroughly for 3 minutes using a slow speed electrical mixer until a uniform mix have been mixed. To ensure thorough mixing, pour materials into another container and mix again to achieve a fluid consistency. Apply the mixed ARDEX R 150 E primer by brush, short/medium pile roller or V shape notched trowel without delay. Ensure a uniform coating is achieved and to compensate for differences in surface porosity. ARDEX R 150 E should be allowed to cure prior to the installation of subsequent floor finish, typically 16 – 24 hours

at 25°C. Alternately, broadcast sand onto the fresh layer if the subsequent coat will be applied 24 hours afterwards.

COATING

Prior to mixing, mechanically stir part A (resin) and colour pack well, then add part B (Hardener) into part A (resin) and mix both thoroughly for 2 minutes using a slow speed electrical mixer until a uniform mix have been mixed. Immediately add the colour pack into the mix. Ensure thorough mixing, pour materials into another container and mix again to achieve a fluid consistency. Apply the mixed ARDEX R 150 E coating or seal coat by short/ medium pile roller or squeegee without delay. Ensure a uniform coating is achieved and to compensate for differences in surface porosity. ARDEX R 150 E should be allowed to cure prior to the installation of the final floor finish, typically 16 – 24 hours at 25°C.

Optional:

For slip resistant surfaces, broadcast quartz sand onto the wet primer or basecoat.

SELF LEVELLING

Prior to mixing, mechanically stir part A (resin) and colour pack well, then add part B (Hardener) into part A (resin) and mix both thoroughly for 2 minutes until a uniform mix have been achieved. Immediately add the colour pack into the mix. Ensure thorough mixing, then add in the filler whilst mixing. Ensure thorough mixing, pour materials into another container and mix again to achieve a fluid consistency. Once mixed, without delay apply the mixed material onto the prepared concrete surface by using a trowel or depth set rake to achieve the desired thickness. As soon as ARDEX R 150 E has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix.

CAUTIONS

After mixing the two liquid components of Ardex R 150 E use immediately. Towards the end of the mixture's useful life and due to its high level

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of reactivity, the mixture will heat up, resulting in a sharp decline in its Pot-Life. The heat increases in proportion to the amount of resin remaining in the container.

In these cases (high temperature) do not touch the drum. In case of fumes, place the lid without closing it and using the handle, place somewhere cool and well ventilated or outdoors to prevent the accumulation of gases.

Note: Once mixed, the ARDEX R 150 E will generate heat and lose working time if it is left in the mixing container after its pot life it will become unusable

LIMITATIONS

Do not use where ambient and/or substrate temperatures exceed 35°C or where ambient humidity exceeds 80%. If pot-life is exceeded the mixed product loses its characteristics and should be disposed of.

COLOURS

ARDEX R 150 E is available in clear or any standard RAL colour chart upon request.

STANDARD COLOR:

WHITE	RAL 9010
YELLOW	RAL 1003
RED	RAL 3001
GREEN	RAL 6012, RAL 6031
BLUE	RAL 5012, RAL 5017
GREY	RAL 7001, RAL 7030, RAL 7036, RAL 7038, RAL 7039, RAL 7044, RAL, 7046

For special colour, please consult our ARDEX sales representatives

PACKAGING & COVERAGE

ARDEX R 150 E is available in 20 kgs set that comprising as below;
Part A: 16kg Resin
Part B: 4kg Hardener

Available in 200L drum upon request.

ARDEX R 150 E Colour pigment is available in 2kg

and 25kg pail upon request.

CONSUMPTION

System application	Product	Consumption (kg/m ²)
Coating system		
Primer	1 coat x ARDEX R 150 E	0.25 – 0.35
Roller coating	2 coats x ARDEX R 150 E + Colour Pigment	0.40 – 0.50
Slip Resistance		
Primer	1 coat of ARDEX R 150 E	0.25 – 0.35
Base coat	1 coat of ARDEX R 150 E + Colour Pigment	0.25 – 0.35
Broadcast	Quartz sand	full broadcast
Finish coat	1 coat of ARDEX R 150 E + Colour Pigment	0.50 – 0.60
Textured Coating		
Primer	1 coat of ARDEX R 150 E	0.25 – 0.35
First coat	1 coat of ARDEX R 150 E + Colour Pigment	0.25 – 0.35
Second coat	1 coat of ARDEX R 150 E + Colour Pigment	0.50 – 0.60
	Thickening Agent	1.5 – 2.5%
1.0mm Self Smoothing System		
Primer	1 coat of ARDEX R 150 E	0.25 – 0.35
Sealer coat (optional)	1 coat of ARDEX R 150 E + Thixotropic Powder	0.25 – 0.35
Finish coat	1 coat of ARDEX R 150 E + Colour Pigment	1.40
1.5mm – 3mm Self Smoothing System		
Primer	1 coat of ARDEX R 150 E	0.25 – 0.35
Sealer coat (optional)	1 coat of ARDEX R 150 E + Thixotropic Powder	0.25 – 0.35
Finish coat	1 coat of ARDEX R 150 E + Colour Pigment + Approx. 50% Quartz sand	2.40 – 4.80
2.0 – 4.0mm Slip Resistance System		
Primer	1 coat of ARDEX R 150 E	0.25 – 0.35
Base coat	1 coat of ARDEX R 150 E + Colour Pigment + Approx. 50% Quartz sand	2.40 – 4.80
Broadcast	Quartz sand to excess	3.0 – 5.0
Finish coat	1 coat of ARDEX R 150 E + Colour Pigment	0.50 – 0.70

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TECHNICAL INFORMATION

TEST	Result (7 days)
Compressive Strength: ASTM C 579	≥ 50 N/mm ²
Flexural Strength ASTM C580	16.9 N/mm ²
Tensile Strength ASTM C307	10 N/mm ²
Abrasion Resistant ASTM D4060	0.12g (CS 17/1000/1000)
Slip Resistant ASTM E303	68
Shore D Hardness ASTM D2240	≥75
Adhesion to concrete ASTM D7234	≥ 2 N/mm ² (failure in concrete)
Pot Life @ 23°C	approx. 30 mins
Full Cure:	7 days
Initial Cure (light traffic):	24 hours
Touch Dry:	4 - 6 hours

STORAGE

Store ARDEX R 150 E under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is up to 18 months when stored as above.

CLEANING

ARDEX R 150 E can be removed from tools and equipment by using ARDEX Solvent immediately after use. Any hardened material will need to be removed mechanically.

SAFETY PRECAUTIONS

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing

gloves to avoid contaminating the insides. In case of accidents seek medical advice. In case of accidents seek medical advice. The Safety Datasheet (SDS) is available upon request and online at www.ardex-quicseal.com.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations. For further information please refer to the relevant health and safety data sheet.

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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