ARDEX CE 403

Upward Bonding HDPE Waterproofing Membrane

Forms unique integral bond to fresh concrete

Provides an effective barrier against water, moisture, and ground gases

Excellent resistance against hydrostatic water pressure

Excellent crack bridging capability

Withstands short-term exposure to sunlight and weather conditions

Excellent durability and long service life

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001

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DESCRIPTION
ARDEX CE 403 is a high-performance, pre-applied HDPE waterproofing membrane specifically engineered for upward-bonding applications in underground structures, lift pits, basements, tunnels, foundations, and other below-ground concrete structures.

The membrane incorporates advanced composite technology, consisting of a robust HDPE film laminated with a specially formulated reactive adhesive layer. When fresh concrete is cast against the membrane, the adhesive chemically reacts with the cementitious matrix to form a continuous, integral bond with the concrete, preventing lateral water migration between the membrane and the structure.

Unlike conventional loose-laid preformed membranes, ARDEX CE 403 creates a fully bonded waterproofing system that effectively seals the concrete substrate and provides long-term protection against groundwater ingress, even under conditions of ground settlement or soil movement.

RECOMMENDED USES
- Underground structures
- Ground slabs
- Lift pits
- Basements
- Underground tunnels
- Box Culverts

APPLICATION
Use the appropriate method statement for the installed system to obtain detailed guidance on application techniques, coverage rates, and installation procedures. Application methods may be adjusted to suit specific site conditions. For further guidance on site-specific requirements, please consult ARDEX-QUICSEAL Sales Representative or Technical Service team.

PACKAGING
1.2mtr x 30mtr per roll @ 1.2mm thickness

STORAGE AND SHELF LIFE
ARDEX CE 403 has a shelf life of 12 months when stored in the original unopened packaging in a dry and sheltered place.

SAFETY PRECAUTIONS
Refer to SDS for more information

TECHNICAL DATA

TESTING PARAMETERS	RESULTS
Appearance	Off white HDPE Membrane
Membrane thickness (DIN 53353)	1.2mm
Tensile strength (SS 374) **Normal curing** **Thermal aging**	 > 25MPa > 25Mpa
Elongation (SS 374) **Normal curing** **Thermal aging**	 a) > 600% b) > 680%
Peel or stripping strength to concrete (ASTM D903)	> 2000N/m
Resistance to hydrostatic pressure (DIN 16726)	> 50m water head
Resistance to Puncture (ASTM E154)	>1000 N

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Change in properties after storage in aqueous solution (DIN 16726) **a) Thickness** **b) Tensile strength** **c) Elongation at break** **d) Peel or stripping strength to concrete** **e) Resistance to hydrostatic head** **f) Puncture resistance**	 a) < 10% b) < 10% c) < 10% d) < 10% e) < 10% f) < 10%
Water vapour transmission (ASTM E96/E96M:16)	< 0.1 g/m^2/day

SYSTEM COMPONENTS
ARDEX CE 403 ST - Single-Sided Tape
ARDEX CE 403 DT - Double-Sided Tape

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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