QUICSEAL 164

Hyperflex 2K

Root Resistant, Polyurethane-Bitumen liquid Membrane for waterproofing & protection.
Two Components Ratio 1 by 1 fast curing

Excellent adhesion on almost any surface, with or without special primers

No thinning is required but in case it can be thinned solvent-01

Excellent thermal resistance, the product never returns soft, Max service temperature

80°C, Max shock temperature 200°C

Resistance in the cold: the film remains elastic even down to -40°C

Excellent mechanical properties, high elongation, tensile and tear strength, abrasion resistance

Excellent chemical resistance

Moisture vapor transmission barrier

Can be used also as joint sealant

Resistant to root penetration

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001

ARDEX-QUICSEAL SINGAPORE PTE. LTD.
26 Tuas Ave 4 Singapore 639376
Telephone: +65 6861 7700
Fax: +65 6741 4666
Email: sales@ardex-quicseal.com
Website: www.ardex-quicseal.com

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DESCRIPTION

QUICSEAL164 is a fast-curing two-component polyurethane liquid. It produces an elastic strong film with excellent adhesion to different surfaces.

The final film possesses extremely high mechanical and chemical properties. Apply with brush, roller or airless in one or two coats with minimum total consumption of 1 - 1.2ltr/m^2.

The product is based on pure elastomeric hydrophobic polyurethane resins and has been extended with chemically polymerised virgin bitumen.

- The product, in case, can be applied in one thick coat with no bubbling or other defects.
- It can be charged with mineral fillers easily due to the low viscosity.
- It can be used as joint sealant.
- The 1/1 by volume ratio gives to the applicator the possibility to use part of the product. This makes the system an economic and versatile tool absolutely indispensable for professionals.

RECOMMENDED FOR

Waterproofing and protection of:

- Roofs
- Water tanks
- Platforms of bridges
- Irrigation channels
- Basement walls
- Light roofing from metal or fibrous cement
- Verandas and balconies
- Bathrooms
- Gypsum and cement boards
- Asphalt membranes
- EPDM membranes
- Polyurethane insulation foams

LIMITATIONS

- Not recommended for unsound substrates.

APPLICATION

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, galvanized steel.

CONCRETE SUBSTRATE CONDITIONS (STANDARD):

- Hardness: R_{28} =15MPa
- Humidity: W < 10%
- Temperature: from 5°C - 35°C
- Relative humidity: < 85%

SURFACE PREPARATION

Clean the surface, using jet water if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membrane must be removed. Fill surface irregularities with adequate products.

PRIMING

Prime surface with QUICSEAL 133 primer. Please refer to QUICSEAL 133 technical data sheet for more information.

MIXING

Open the two pails, take equal volumes, one from the resin and one from the bitumen. Mix well Use a low speed (300rpm) electric drill.
Apply immediately. Pot Life 30-45min.
Mixing Ratio: 1/1 by volume

PLACING

Apply the material with roller, brush or spatula in one or two coats. You can add inorganic fillers, like silica, accordingly.

PRECAUTIONS

QUICSEAL164 contains a small quantity of volatile flammable Solvents. Apply in well-ventilated areas. Don't smoke. Apply far away from naked flames. In closed areas use force ventilation and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. Ask for MSDS (Material Safety Data Sheet)

CONSUMPTION

Minimum Total Consumption: 1 - 1.5 ltr/m^2 per 2 to 3 coats

CLEANING

Clean tools and equipment first with paper towels and then wipe by using Solvent-01®. Do not try to clean rollers it is not worthwhile.

PACKAGING

20+20 ltrs

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QUICSEAL 164 can be kept for minimum 12 months in the original unopened pails at a temperature of 5°C - 25°C in dry places.
When you open pails try to close again hermetically.

Technical Specifications of Hyperflex 2K

The Liquid Product:

±90% dry matter in Xylol.

PROPERTY/ METHOD	UNITS	SPECIFICATION
Viscosity (BROOKFIELD) Resin-A Component-B (ASTM D2196-86, at 25°C)	cP	1300 4300
Viscosity of the mixture (BROOKFIELD) (ASTM D2196-86, at 25°C)	cP	3000
Specific weight of the mix (ASTM D1475 / DIN 53217 / ISO 2811, at 20°C)	gr/cm³	0.97
Flash point (ASTM D93, Closed cup)	°C	> 50
Tack free time at 77 deg F (25°C) & 55% RH	Hours	6
Recoat time	Hours	6 to 24

The Film

PROPERTY/ METHOD	UNITS	SPECIFICATION
Service temperature	°C	-40 to 80
Max. Temperature short time (shock)	°C	150
Hardness (ASTM D2240 / DIN 53505 / ISO R868)	Shore A	35
Tensile Strength at break at 23°C (ASTM D412 / DIN 52455)	Kg/cm² (N / mm)	20 (2)
Percent Elongation at 23°C (ASTM D412 / DIN 52455)	%	> 2500
Recovery from 200% Elongation (ASTM D12 : 06ae²)	%	200
Service temperature	°C	- 40 to 80

Water Penetration at 4 Bar for 6 hours (DIN 1048 Part 5)	mm	No water penetration
Adhesion Concrete (ASTM D4541)	Kg/cm² (N/mm²)	> 20 (> 2)
Tensile set (after 300% Elongation) ASTM D412	%	< 1%
CHEMICAL Resistance: Sodium Hypochlorite 5%	Unaffected	
Hydrolysis Resistance: Potassium Hydroxide 8% at 50°C 10 days	Unaffected	
Water Absorption after 10 days	< 0.9%	

IMPORTANT NOTES

The information set forth herein is furnished in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact ARDEX-QUICSEAL

Offices:

Malaysia:
ARDEX QUICSEAL MALAYSIA SDN. BHD.
72-2, Jalan Puteri 2/2 Bandar Puteri 47100,
Puchong, Selangor Darul Ehsan
Malaysia
Phone: +603 8051 0311
Email: sales.malaysia@ardex-quicseal.com

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Thailand:
ARDEX (THAILAND) CO., LTD
969 2nd Floor, Moo 13, Soi 45, Bangna-Trad Road
Bangkaew, Bangplee, Samutprakarn 10540 Thailand
Telephone: +66 2316 3069 Fax:+66 2316 3075
Email: sales@ardex.co.th
Website: www.ardex.co.th

Vietnam:
Mobile: +84 901 351 308
Email: sales@ardex-quicseal.com

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