

ISO HYDROCUT 1075

Product Data Sheet

Description:

ISO HYDROCUT 1075 is a Two component, cementitious waterproofing compound applicable from both inside (negative) and outside (positive) directions for interior and exterior concrete and masonry structural elements.

Uses:

ISO HYDROCUT 1075 is used as active isolating system for the following concrete components:

- internal and external isolating of old and new buildings.
- Isolating of tunnels, irrigation channels and dams.
- Tower water storage tanks, swimming pools, potable water tanks and big tanks.
- Retaining walls and building foundations
- under ground parkings, inspection halls, and sea ports.
- Water immersed basements and covered channels.

Advantages:

- Water isolation complete system for negative and positive pressure.
- Non toxic, no smell during application (suitable for potable water tanks)
- Flexible nature and excellent performance.
- Complete structural adhesion on the surface that applied on.
- Resistant to salt and sulfuric water, resists polluted weather and freezing, protects concrete and reinforcement elements from chlorides and sulphates during exposing to water.
- Easy to use which save money and work force.
- Can be used as finish coat without paint (decorative mortar)
- Used directly on damp surfaces (in case of leakage of running water, It is required to apply fast drying cement to stop running leaking water before applying ISO HYDROCUT 1075).

Coverage:

For coat thickness of 1 mm, 1.9 kg (1.5 kg cement powder with 0.4 kg liquid)



Technical Properties:

Color :	Part A: white liquid Part B: grey powder
Mixing ratio :	A:B 1:4
Density :	1.9T/m ³
Pressure stress after 28 days :	35 Mpa
Tensile stress :	3.3 Mpa
Flexibility factor :	2.9 Gpa
Adhesion stress :	1.66 Mpa
Water saturation factor after 2,7 and 14 days :	0Mh/mm ²
Water leakage inside ISO HYDRO CUT under pressure of 8.4 bar continuously for 24 hours :	0mm
Resistance on negative pressure :	20 bar.
Abrasion resistance (new concrete equation) :	72
Thermal factor :	6*10 ⁻⁶ /C
Expansion of sample in hard environment: -Freezing and reverse(150 cycle from 9-18 degree) : -Effect of see water (after 90 days in high salt concentrated solution) : -Sulfur salts (after 90 days in high sulphuric salt concentrated solution) :	No expansion 0% No effect 0.0275% good resistance on long term 0.413

Chemical resistance:

Chemical resistance according to ASTM D543 to the following chemicals, solvents and oils: linseed oil, Methanol, Sodium oxides, Distilled water, Ethanol 95%, engines oil, Gasoline.

Application procedure:

Surface preparation :

- 1-Surface to be clean and free from oil and greases.
- 2-High pressure water cleaning is preferable because mechanical cleaning allows to have rough and saturated surface.
- 3-Surface must be only damped without wetting with free water.
- 4-Cracks to be filled with ISO HYDRO CUT.
- 5-Powder to be added to the liquid part slowly, with continuance mixing with electrical mixer 500 elm for 3 minuets.
- 6-Mix in clean pot by adding 20 kg of component B to 5 kg of component A (liquid) and keep mixing until homogeneous is obtained.
- 7-ISO HYDRO CUT can be applied by brush or trowels with two coats at the same direction.
- 8-Second coat to be applied during the curing of first coat after 3-4 hours of the application of first coat taking in consideration the ventilation.
- 9-Pot life: the product must be used in 20 minutes after mixing
- 10-Mix a sufficient quantity for the area to be isolated.
- 11-Isolated area must be sprayed with water after 24 hours of application and for a period of 7 days.
- 12-Anti-evaporation systems are not suitable for ISO HYDRO CUT system.
- 13-Tanks, pools and dams to be filled with water after 3-5 days of drying, ISO HYDROCUT must not be applied at a temperature lower than 5 C.

Applications:

- To achieve 3mm thickness in positive pressure service, 6 kg/m² to be applied.
- To achieve 6mm thickness in negative pressure service, 12 kg/m² to be applied.

Cleaning:

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

Packing:

ISO HYDROCUT 1075 is available in 20 kg kits. Contains 2 parts.
Part A - 20 kg powder
Part B - 5 kg liquid
Color : grey and white , other color in order .

Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf life:

Store under cover, out of direct sunlight and protect from extreme temperatures. Shelf life is up to 12 month when stored as per recommendations .

Health and Safety:

As with all construction chemical product, caution should be always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediatly. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance immediately.

*Prior to each use of any product of ISOBIT, its subsidiaries or affiliates ("ISOBIT"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Datasheet which are available at www.isobitiraq.com or by calling ISOBIT's Technical Service Department at +9647501136936. Nothing contained in any ISOBIT literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each ISOBIT product as set forth in the current product label, Product Data Sheet prior to use of the ISOBIT product. ISOBIT warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL***

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