

ISO HYDROCUT 2025

Product Data Sheet

Description:

Iso hydrocut consists of two components A liquid and B cement powder which form when mixed together a water isolating system lasting against water leak (negative and positive pressure).

Uses:

Iso hydrocut 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, fast drying cement to be applied first to stop leakage first and then Iso Hydro Cut to be used).

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 damped sufficiently without water pool.

4-Cracks to be filled with ISO HYDRO CUT paste.

5-Powder to be added to the liquid not vice versa, with continuance mixing with electrical mixer 500 elm for 3 minuets.

6-Mix in clean vessel 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 HYDRO CUT 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 flex is available in 20 kg kits. Contains 2 parts.
Part A - 15 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 immediately. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance immediately.

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T1: +964 750 1136 936.
T2: +964 751 740 1493.
E: info@isobitiraq.com.

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www.isobitiraq.com