



KUTRILIN

MONOLIT LP

Liquid admixture that draws air into fresh concrete and plaster and distributes it evenly in the form of micro pores

Description and scope

MONOLIT LP causes air to be drawn in when mixing fresh concrete in the mixer. In the hardened concrete, the micro-pores of the entrained air are evenly distributed (spacing factor).

MONOLIT LP ensures the formation of stable air pores of a certain size. Evenly distributed micro-pores of air in concrete or mortar break the capillary and thus reduce water permeability and water absorption. The concrete and mortar thus prepared show resistance to freezing and thawing cycles as well as to the action of aggressive agents.

MONOLIT LP also has a plasticizing effect, as it reduces the surface tension of water and thus improves the wettability of cement and aggregates. This property makes it possible to reduce water during the preparation of concrete, thus neutralizing the drop in strength created by drawing air into the concrete.

MONOLIT LP is used in the production of concrete resistant to freezing cycles (roads, airstrips), concrete for hydraulic structures (dams, dykes, pools, canals), concrete resistant to aggressive agents (food industry, chemical industry, etc.) Mixing time and temperature concrete affects the amount of entrained air.

Longer mixing time and higher temperatures cause higher air content.

The dosage of **MONOLIT LP** should be determined experimentally at the construction site for the required amount of entrained air.

Dosage

MONOLIT LP is dosed in concrete 0.1 - 0.7% by weight of binder.

MONOLIT LP is added to the concrete preparation water or directly to the concrete mixer after water is added.

Application

MONOLIT LP should be combined with a superplasticizer to avoid loss in concrete strength which requires a very high content of entrained air.

Both additives are dosed just before the end of mixing.

Packing and storage

MONOLIT LP comes in 130 kg PE barrels.

MONOLIT LP is stable for 12 months in tightly sealed packaging.

Replaces all previous releases for this product.
August, 2020.



CONFIRMATION OF CONFORMITY	DECLARATION OF PERFORMANCE 2477-CPR-2790-006														
 2477	<p>1. Inique identification mark of product: MONOLIT LP</p> <p>2. Intended use of the construction product acc to EN 934-2: Air entraining admixture</p> <p>3. Name, registered trade name or registered trademark and contact address of the producer: KUTRILIN d.o.o., Radnička cesta 173P, HR-10000 Zagreb</p> <p>4. The system or systems for assessing and verifying the stability of the properties of the construction product, as set out in Annex V.CPR: System 2+</p> <p>5. The product is in compliance with the harmonized standard: EN 934-2 Admixtures for concrete, mortar and grout - Part 2: Concrete admixtures Name and identification number of the notified body: Institut IGH d.d., NB 2477</p> <p>6. Evaluation of characteristics in relation to standard requirements</p> <table border="1"> <thead> <tr> <th>An important feature</th> <th>Property</th> </tr> </thead> <tbody> <tr> <td>Chloride ion content</td> <td><i>≤0,1% by mass</i></td> </tr> <tr> <td>Alkali content</td> <td><i>≤2,0% by mass</i></td> </tr> <tr> <td>Corrosion behaviour</td> <td><i>No corrosion promotion effects on steel embedded in concrete</i></td> </tr> <tr> <td>Compressive strength T5</td> <td><i>Pass</i></td> </tr> <tr> <td>Air content in fresh concrete (entrained air) T5</td> <td><i>Pass</i></td> </tr> <tr> <td>Air void characteristics in hardened concrete T5</td> <td><i>Pass</i></td> </tr> </tbody> </table>	An important feature	Property	Chloride ion content	<i>≤0,1% by mass</i>	Alkali content	<i>≤2,0% by mass</i>	Corrosion behaviour	<i>No corrosion promotion effects on steel embedded in concrete</i>	Compressive strength T5	<i>Pass</i>	Air content in fresh concrete (entrained air) T5	<i>Pass</i>	Air void characteristics in hardened concrete T5	<i>Pass</i>
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7. The product type described in item 1 is in compliance with the stated properties from item 6. Only the producer designated in point 3 is responsible for issuing the declaration of performance.

December, 2020.