

MasterGlenium 40PAV

High range water reducing admixture for concrete floors. Advised for winter climates.

DESCRIPTION AND WHERE TO USE

MasterGlenium 40PAV is a high range water reducing admixture, based on chains of modified polycarboxylic ether, developed specifically for laying concrete floors.

The mechanism of action of MasterGlenium 40PAV is based on the combination of a number of effect; its strong electrostatic and steric dispersion power and its early hydration reaction during the initial stage.

MasterGlenium 40PAV is chloride free, meets UNI EN 934-2, UNI EN 420 (1-2), UNI 10765, ASTM C 494-92 requirements for Type A and E it is also compatible with all cements meeting the UNI EN 197-1 and ASTM standards.

BENEFITS FOR READY-MIX PRODUCER

MasterGlenium 40PAV is the answer to the market needs of concrete used in flooring because it combines the requirements of the supplier of ready-mix concrete to those of the contractor. Its special active process enables MasterGlenium 40PAV to produce concrete products featuring the following technical and economic advantages:

- Permits a significant lowering of the water/cement ratio to improve the quality and durability of the concrete.
- Long workability retention in summer climates and fluid consistence for the entire period of time necessary for the transportation and the placing process.
- Fasten the initial hydration of the cement, thus providing higher strength at early ages.
- High workabilites (slump 210-240 mm) without the risk of segregation.
- Low rate of bleeding.
- Permits a dramatic improvement in the initial and long term mechanical performance of the concrete

FOR THE CONTRACTOR

- Reduces the time required for placing, compacting and finishing.
- Eliminates the early “drying-up” of the surface which causes the so-called “wave effect”.
- Makes it possible to lay floors that truly meets the expectations of the end user.
- Permits work to be performed while fully respecting current work site regulations (work hours, sound pollution).
- Improves the surface appearance of the floors.
- With MasterGlenium 40PAV it is possible to complete the finishing work on the same day as the casting itself, even during the winter, with significant technical, financial and logistical benefits.

MasterGlenium 40PAV is not compatible with all admixtures of MasterRheobuild series.

DIRECTIONS FOR USE

MasterGlenium 40PAV is a ready-to-use liquid admixture which is added to the concrete together with the other components. The plasticizing effect or the water reduction is higher if the admixture is added to the concrete after 80-90% of the total mix water has been added. This addition of MasterGlenium 40PAV to dry aggregates is to be avoided.

Technical Information	
Form	Liquid
Relative density (g/cc at 20°C)	1.022 – 1.062

MasterGlenium 40 PAV

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DOSAGE

The dosage rate for MasterGlenium 40PAV varies according to specific job site condition. The recommended dosage range is from 0.8 to 1.2 litres per 100 kg of cement.

Other dosages may be recommended in special cases according to specific job site conditions.

In such cases please consult our Technical Service Department for advice.

PACKAGING AND STORAGE

MasterGlenium 40PAV is available in 10L cans, 208L drums, 1.000L tanks or in bulk.

MasterGlenium 40PAV must be stored in a place where the temperature does not drop below 5 °C. In case of freezing, warm up and homogenise the admixture solution before using.

MODULAR SYSTEM FOR FLOORING

MasterGlenium 40PAV is the basic component of the Modular System for Laying Floors. This system makes it possible to cope with all the problems which may arise in completing industrial flooring through the most suitable combination of different admixtures, each of which is particular for the solution of an individual problem.

The Modular System for Laying Floors is an effective tool in the hands of the builder and the ready-mix concrete supplier in order to cope with and provide the best solution to flooring problems with a performance guaranteed to meet the hope of the end user.

Reduction of finishing times Reduction of water-cement ratio Better uniformity of the mix High workability retention	MasterGlenium 40PAV
Reduction of plastic shrinkage and cracks	MasterGlenium 40PAV and MasterFiber synthetic micro and macro fibers
Resistance to freeze-thaw cycles	MasterGlenium 40PAV, MasterFiber and MasterAir entraining agent
Resistance to the alkali-aggregate reaction Increase durability	MasterGlenium 40PAV, densified Silica Fume MasterRoc MS 610
Compensation for drying shrinkage and curling	MasterGlenium 40PAV, MasterFiber and expansive agent MasterLife SRA 150 and MasterLife SRA 915

From 16/12/1992 BASF Construction Chemicals Italia Spa operates under the Quality System in compliance with European Standard UNI-EN ISO 9001. The environmental management system of BASF Construction Chemicals Italia Spa is certified accordingly to UNI EN ISO 14001 and the System of Safety Management is certified accordingly to OHSAS 18001. Environment sustainability: Partner Green Building Council since 2009.

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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

The technical advice on how to use our products, either written or verbally given, are based on the present state of our best scientific and practical knowledge, and no guarantee and/or implicit or explicit responsibility are assumed on final results of works executed by the use of our products.

The owner, his representative, or the contractor is responsible for checking the suitability of our products as to the intended use and aims.

Supersedes all prior issues on this product.

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