

# MasterGlenium 44PAV

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

## DESCRIPTION AND WHERE TO USE

MasterGlenium 44PAV is a high range water reducing admixture, developed specifically for laying concrete floors.

**The mechanism of action of MasterGlenium 44PAV 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 44PAV is chloride free, meets UNI 8145, EN 934-2, and ASTM C 494 requirements (for Type A and E) standards, and it is also compatible with all cements covered by EN 196 standards regarding reinforced concrete.

## BENEFITS FOR READY-MIX PRODUCER

MasterGlenium 44PAV 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 44 PAV 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 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 44PAV 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 44PAV is not compatible with all admixtures of MasterRheobuild series.**

## DIRECTIONS FOR USE

MasterGlenium 44PAV 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 44PAV to dry aggregates is to be avoided.

Technical Information	
Form	Liquid
Relative density (g/cc at 20°C)	1.350 – 1.410

# MasterGlenium 44PAV

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

## DOSAGE

The recommended dosage rate varies according to specific job site condition. The advised dosage for MasterGlenium 44PAV is ranging from 0.8 to 1.5 litres/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 BASF Construction Chemicals Italia Spa.

## PACKAGING AND STORAGE

MasterGlenium 44PAV is available in 10L cans, 208L drums, 1.000L tanks or in bulk.

MasterGlenium 44PAV must be stored in a place where the temperature does not drop below 5 °C.

If product has frozen, thaw at +30°C and agitate until it is completely reconstituted.

## MODULAR SYSTEM FOR FLOORING

MasterGlenium 44PAV 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 44PAV
Reduction of plastic shrinkage and cracks	MasterGlenium 44PAV and MasterFiber synthetic micro and macro fibers
Resistance to freeze-thaw cycles	MasterGlenium 44PAV, MasterFiber and MasterAir entraining agent
Resistance to the alkali-aggregate reaction Increase durability	MasterGlenium 44PAV, densified Silica Fume MasterRoc MS 610
Compensation for drying shrinkage and curling	MasterGlenium 44PAV, MasterFiber, 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.

### BASF Construction Chemicals Italia Spa

Via Vicinale delle Corti, 21 – 31100 Treviso – Italy

T +39 0422 429200 F +39 0422 421802

<http://www.master-builders-solutions.basf.it> e-mail: [infomac@basf.com](mailto:infomac@basf.com)

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.

February 2019

