

PYTHON®

Mid Range Water-Reducing Admixture



PYTHON® is a superplasticizer for job-site concrete addition that combines improved flowability with a cohesive, plastic consistency. Adding 8 kg to a 5 m³ truck-mixer load increases slump from approximately 8 to 17 cm. Its high efficiency provides effective performance at relatively low dosages without causing bleeding.

Applications

- Increasing concrete slump and flowability
- Hot-weather concrete
- Concrete made with high-heat or rapid-setting cements
- Pumping through long lines and to elevated locations
- Retaining-wall and tank-wall placements where cold joints must be avoided
- Improved watertightness of tank walls through better concrete compaction at a constant water-to-cement ratio
- Smooth, uniform exposed-concrete surfaces
- Concrete containing highly absorptive aggregates, including mixes with high fines contents

Approvals / Standards

- ASTM C494/C494M Type F
- ASTM C1017 Type I; EN 934
- INSO 2930
- ACI 212.3R-16 (technical reference)

Advantages / Benefits

- Reduced damage from blocked or burst pump lines
- Faster pumping and placement
- Increased flowability and workability

Guideline for Use

For the usual job-site application, visually assess the initial truck-mixer slump. Lower initial slump requires a higher superplasticizer dosage.

Bring the concrete to the truck discharge opening and pour PYTHON onto the concrete, minimizing loss through adhesion to the drum walls.

Return the concrete and admixture to the drum and mix at high speed for 4 minutes.

Recheck slump and flowability. Discharge when the required consistency is obtained; otherwise repeat the procedure with additional measured admixture until the required workability is achieved.

Dosage

0.4 to 1.4% by mass of cement. Determine the exact dosage according to project conditions, concrete type and required workability.

Compatibility

PYTHON is compatible with concretes containing silica fume, fly ash, or ground granulated blast or slag cement. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

Effect of Overdosing

Over dosage may cause delay in the setting time, bleeding and segregation problems.

- Slump retention for up to 1 hour at 40°C
- Reduced bleeding and segregation
- Improved concrete compaction and lower permeability
- Increased durability
- Up to 40% higher strength than concrete without a plasticizer
- 12 to 25% less mixing water at equal slump
- More economical mix designs
- Reduced surface cracking
- Reduced creep and shrinkage
- Improved consistency, viscosity and aggregate cohesion in poorly graded mixes

Storage

Should be protected from direct sunlight and frost. Keep container in the temperature range between +10°C and +30°C.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact RAMKA Technical Services Department.

Basis of Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety

This product does not contain any substances hazardous to human health and the environment.

However, it should not be swallowed and contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water.

If swallowed, seek medical attention immediately.

Product Information

State	Liquid
Air content increase	<2% (increase, not total air content)
Packaging	20KG Plastic Can / 1100KG IBC Container
Alkali content	<5 g Na ₂ O equivalent/L
Chloride Content	None
Appearance / Color	Brown
pH	7±2
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
Storage Condition	Should be protected from direct sunlight and frost. Keep container in the temperature range between +10°C and +30°C.
Density	1.12 ± 0.05 g/cm ³ at 20°C
Chemical base	Naphthalene sulfonate formaldehyde

Fire

PYTHON is not flammable.

Additional Information

For additional information on PYTHON admixture, consult our Technical Services Department.



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Important Notes: The information, and, in particular, the recommendations relating to the application and end-use of RAMKA products, are given in good faith based on RAMKA's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with RAMKA's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. RAMKA reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.