



VIMATOL® – RT

**Concrete set retarder- Water reducer/
Concrete Plasticiser***

Properties

VIMATOL – RT is a liquid additive that retards concrete setting, i.e. prolongs time in plasticity state. At the same time reduces the requirements in water for given workability or by keeping stable the quantity of mixing water, it improves the workability.

- In addition to set retarding, it allows very high concrete hydration, resulting in significant increase of the initial and final strengths of the concrete.
- Facilitates concrete condensation and prevents from aggregates separation
- Decreases significantly the cracking due to shrinkage setting
- Reduces the water absorbability of concrete due to reduction of porosity

Applications

VIMATOL – RT is a necessary aid in preparing high-quality ready-mixed concrete.

- Improves pumping process and facilitates setting
- Facilitates the transfer of ready concrete in long distances especially in high temperatures
- Prevents the creation of work joints
- The development of high strengths does not enforce delays in the removal of wooden forms.

* In accordance with the standard ELOT EN 934-2:2001, Table 10. The conformation was certified by ELOT with Certification No 0365-CPD-070/01.12.01/1

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- Reduction of mixing water for preparing concrete of a given binding power, achieved by the addition of **VIMATOL – RT**, allows the reduction of cement by the same percentage. By keeping mixing water/cement ratio constant, the produced concrete retains the desired quality, using less cement (more than 5% reduction). The reduction of cement cost covers the cost of **VIMATOL – RT**.

Technical Characteristics

Colour: dark brown Density: 1,11-1,17 kg/l pH: $\leq 7,9$
Conciseness in water-soluble chlorine: free of chlorine
Conciseness in alkali: $\leq 4,5\%$ by weight

Dosage

Permissible dosage: 0.1 – 0.3% by cement weight
Recommended dosage: 0.2 % by cement weight

In order to find the best dosage in each case, some test mixtures are required. The respective concrete compositions should be made with the materials and ratios to be used on site, as the chemical action of the additive is affected by the properties and the ratios of the other concrete components

Effectiveness

For all the field of the allowed dosage, is achieved reduction of mixing water above 5% and up to 18%. Respectively the increase of final strengths oscillates from 6% until 11%. The time of initial setting is elongated at 150 until 200 minutes while that of final setting at 180 until 240 minutes.

Storage

The life span of **VIMATOL-RT** reaches the 12 months in the initial closed packing in temperature between $+ 5^{\circ}\text{C}$ and $+ 35^{\circ}\text{C}$. Protection of the material is required from direct solar radiation and frost.

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General Remarks

- **VIMATOL – RT** is suitable for all kinds of Portland cement
- Overdosage by mistake may cause concrete setting acceleration, however without affecting unfavorably concrete final strengths
- If the material is frozen, return it to a temperature at least +5° C and stir so as to achieve homogeneity.

Concrete additives improve the properties of concrete significantly. However, this does not imply that concrete technology regulations should not be strictly applied.



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