

## PRODUCT DATA SHEET

# SikaTard®-901 F

### RETARDER FOR CEMENTITIOUS AND GYPSUM BINDER SYSTEMS

#### DESCRIPTION

SikaTard®-901 F is a high-performance set retarder in powder form for cement, cement-gypsum based and ternary binder systems.

#### USES

SikaTard®-901 F provides excellent performance in the adjustment of setting time and workability of cement-gypsum based dry mortars.

The product is especially suitable for the following applications:

- In with cement stimulated anhydrite flow screeds
- In ternary, OPC-rich self-levelling underlayments
- In cementitious self-levelling screeds
- As co-retarder component in combination with fruit acid

#### CHARACTERISTICS / ADVANTAGES

SikaTard®-901 F offers the following advantages:

- Very efficient retardation at low dosage
- Rapid effect even with short mixing times
- Very effective on CEM I-cements with high sulphate resistance (HS)
- Very effective on slag cements (CEM III)
- Additional consistency in some systems
- Influence on the formation of ettringite in fresh mortar
- High robustness in a wide dosage range
- Compatible with other additives, such as Sika® ViscoCrete® superplasticizers
- Same or higher final strength (unlike with several fruit acid based retarders)

#### PRODUCT INFORMATION

|                                   |  |
|-----------------------------------|--|
| <b>Composition</b>                | Phosphonate mix  |
| <b>Packaging</b>                  | 25 kg bag / 1000 kg per pallet   |
| <b>Appearance / Colour</b>        | Fine white powder  |
| <b>Shelf life</b>                 | 36 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging. |
| <b>Storage conditions</b>         | Dry storage and protected from direct sunlight.  |
| <b>Bulk density</b>               | Approx. 0.81 g/cm <sup>3</sup>   |
| <b>pH-Value</b>                   | Approx. 11 (50% solution)  |
| <b>Total chloride ion content</b> | ≤ 22 %   |

## APPLICATION INFORMATION

|                           |  |
|---------------------------|--|
| <b>Recommended dosage</b> | Typical dosage range: 0.05 - 0.5 % of binder weight. Differences in binder type, age and storage conditions of the binder and other conditions and factors at the plant and/or on-site can also influence the setting time and therefore the dosage requirements.<br>Note: Preliminary testing is required to determine the exact dosage for specific applications and conditions. Please contact our Technical Services Department for any additional information and assistance. |
| <b>Compatibility</b>      | SikaTard®-901 F may be combined with many other Sika products and most usual additives including superplasticizers, foaming agents / de-foamers and stabilizers. In these combinations i.e. with Sika® ViscoCrete® superplasticizers, additional improvements in flow and setting-time adjustment can also be achieved.<br>Note: Always conduct trials before combining products in specific mixes.  |
| <b>Dispensing</b>         | The product is added to the dry-mix. Avoid open storage because of very strong hygroscopicity.   |

## BASIS OF PRODUCT DATA

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

## FURTHER INFORMATION

SikaTard®-901 F is very hygroscopic due to the fineness and the associated surface. Do not store in open containers.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data. Further notes and information data sheets on product safety and disposal can be found on the Internet at [www.sika.de](http://www.sika.de).

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika'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. Sika 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.

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