

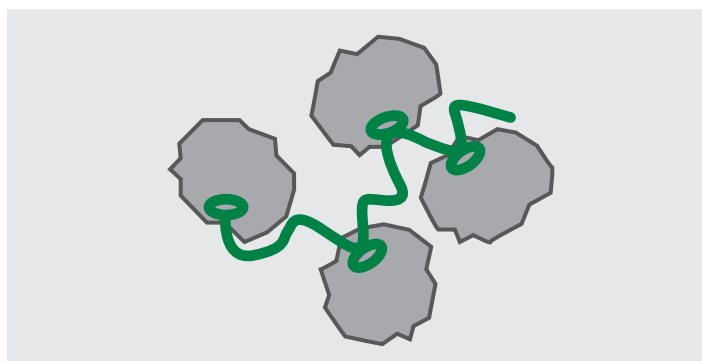
# Starvis® T

Efficient thickening with polyacryl amide polymers

## What is Starvis® T?

**Starvis® T** is the brand name of BASF Construction Additives GmbH for its high molecular weight synthetic copolymers. Due to proper polymer design **Starvis® T** grades can easily deal with the highly alkaline and salty conditions of cementitious systems. Their anionic nature guarantees strong interaction with the cement surface and a very efficient performance profile.

- ▶ Interaction with cement and filler grains leads to efficient introduction of yield point for sag-resistant applications
- ▶ In contrast to several natural products retardation of cementitious reaction is minimized



## Starvis® T in dry mortar systems

**Starvis® T** grades are valuable rheology additives for cementitious and gypsum-based dry mortar systems. In combination with cellulose ethers (CE), starch ethers (SE) and others, consistency of a dry mortar can be adjusted on demand. **Starvis® T** grades are responsible for efficient introduction of sag resistance.

## What benefits can be achieved?

- Mortars with**
- ▶ Excellent non-slip properties also with heavy tiles (CTA)
  - ▶ No sagging when applied (e.g. joint fillers)
  - ▶ Improved workability and open time due to increased water

## The different Starvis® T grades

The **Starvis® T** portfolio comprises two grades: **Starvis® T 50 F** and **Starvis® T 51 F**, both with high impact on the yield point. A special surface modification of **Starvis® T 51 F** leads to improved wetting behaviour during mixing of the mortar, making it especially interesting for machine-applied mortars.

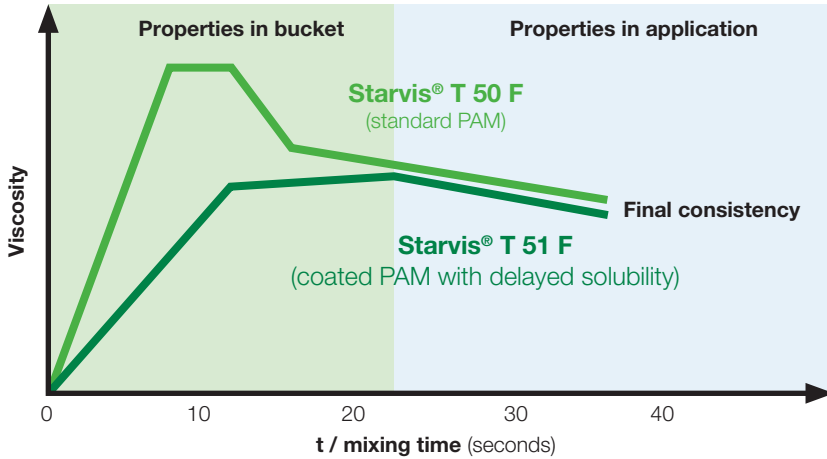
| Product                | Applications           |   |                   |        |                    |                  | Properties               | Dosage      |
|------------------------|------------------------|---|-------------------|--------|--------------------|------------------|--------------------------|-------------|
|                        | Ceramic Tile Adhesives |   | EIFS / ETICS      |        | Plasters & Renders |                  |                          |             |
|                        | cementitious           |   | cemen-<br>titious | mastic | cemen-<br>titious  | gypsum-<br>based |                          |             |
| 1C                     | 2C                     |   |                   |        |                    |                  |                          |             |
| <b>Starvis® T 50 F</b> | ■                      | ■ | □                 | □      | □                  | □                | manually applied mortars | 0.01 – 0.20 |
| <b>Starvis® T 51 F</b> | ■                      | ■ | □                 | □      | □                  | □                | machine-applied mortars  | 0.01 – 0.20 |

▶ Dosage recommendation for **Starvis® T** grades is between 0.01 and 0.20 %.

■ = recommended □ = suitable

## Wetting properties of different Starvis® T grades

**Starvis® T 50 F** and **Starvis® T 51 F** have the same influence on the final consistency and are especially recommended for applications with high non-slip requirements. Due to surface modification **Starvis® T 51 F** shows delayed solubility, leading to improved wetting of the dry mortar mix and easier mixing properties. This is especially recommendable for machine-applied mortars with short mixing times.



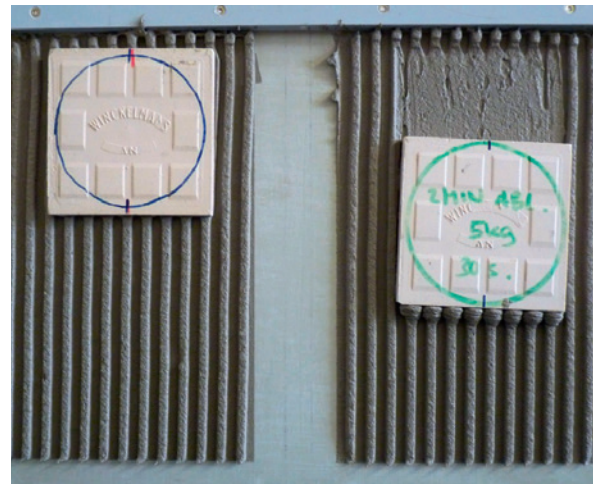
## Formulating with Starvis® rheology modifiers

**Starvis® T** grades efficiently introduce sag resistance into cementitious mortar systems. Already at low dosages of 0.03 – 0.05 % a significant increase of yield point can be observed.

Use of **Starvis® T** grades in mortar formulations allows increase of water content without negative impact on non-slip properties. More water in the formulation leads to improved workability and open time.

Therefore, mortars with good sag resistance, workability and open time can be obtained, in combination of **Starvis® T** grades with cellulose ether and **Starvis® SE** starch ethers.

For further improved fresh mortar properties additional use of **Starvis® S 3911 F** is recommended (see technical leaflet **Starvis® S 3911 F**).



**Further information (test formulations and further test results) is available on demand. Please feel free to contact our local sales representatives.**

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