

# Starvis® 3070 F

Stabilizer for self-levelling underlayments (SLUs) with excellent rheological properties

**BASF**  
The Chemical Company

## What is Starvis® 3070 F?

Starvis® 3070 F is a polymer based stabilizer in powder form.

- Water soluble polymer molecules act as a viscosity enhancing agent.
- Viscosity enhancement prevents sedimentation of dispersed mineral particles (to avoid segregation & bleeding water).



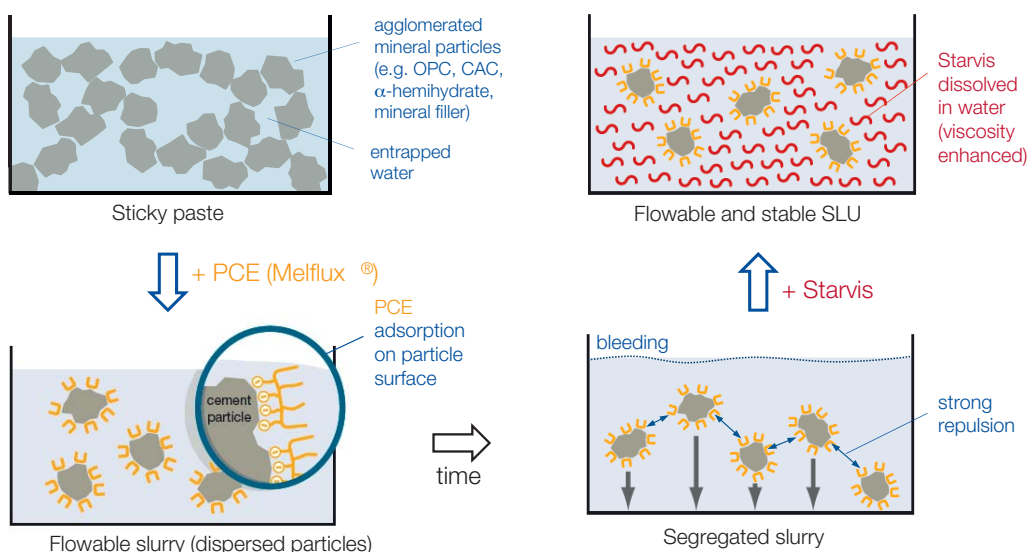
## Starvis® 3070 F in SLU dry-mix mortars

Starvis® 3070 F is the additive of choice to stabilize cementitious and calciumsulphate based SLUs.

## Which benefits can be achieved with SLUs formulated with Starvis® 3070 F?

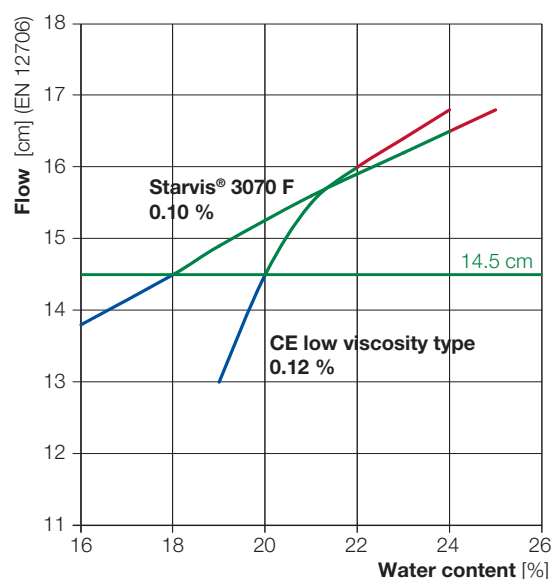
- No sedimentation, no segregation, no separation of bleeding water
- Excellent self-levelling rheology and workability (providing smooth surface)
- Broad dosage range (easy to formulate a robust SLU)
- Improved robustness against changing water amounts and raw material deviations
- Very efficient (low dosage of Starvis® 3070 F, cost savings)
- Compatible with other SLU additives (very useful to combine with other BASF powder additives such as Melflux® F superplasticizers and Vinapor® DF 9010 F defoamer)
- Useful for machine-applied SLUs (very fast dissolution of stabilizer molecules, no surface defects on hardened SLU)
- Useful to formulate SLUs with very low VOC emissions (to fulfil e.g. EMICODE® EC-1 plus)

## Mode of action of Starvis® 3070 F



### SLUs with Starvis® 3070 F with improved water tolerance/robustness

SLUs stabilized with Starvis® 3070 F (dosage recommendation: 0.03 to 0.15 % by weight of SLU dry mortar) are very tolerant against changing water contents (good flow, no bleeding).



### Short mixing time (very fast dissolution) of Starvis® 3070 F

SLUs formulated with Starvis® 3070 F need only very short mixing time for complete dissolution of stabilizer molecules. This provides a smooth surface without defects (without gel particles). This is very important for machine-applied SLUs (mixed and pumped by screw mixing pump within a very short time).

Pictures (4 cm x 4 cm)  
of hardened SLU surface

short mixing  
(40 s)

long mixing  
(120 s)

Starvis® 3070 F\*  
(0.10 % by weight of dry mortar)



No surface defects with Starvis® 3070 F even at short mixing times

CE\*  
(0.12 % by weight of dry mortar)



Evident surface defects at short mixing times due to slow dissolution of CE (gel formation)

\* Superplasticizer in both cases: 0.10 % Melflux® 6681 F

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