

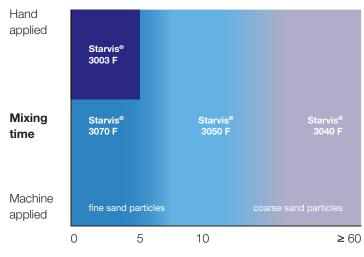
Starvis[®] stabilizers

High-performance stabilizers for flowable dry mortar applications

What are Starvis® stabilizers?

Starvis® 3003 F, 3070 F, 3050 F and 3040 F are stabilizers in powder form based on water soluble high molecular weight polymers that prevent bleeding and segregation of mineral particles and aggregates.

- Starvis® 3003 F is optimized for self-levelling underlayments (SLUs) with fine particles and very low layer thickness, providing unique self-healing and self-levelling properties and high water retention for hand application.
- Starvis® 3070 F is a quickly dissolving stabilizer for SLUs with thin to medium layer thickness for mixing pump and hand application.
- Starvis® 3050 F is a quickly dissolving stabilizer for SLUs Þ with thin to medium layer thickness. It provides good selfhealing properties, shear thinning rheology, a high temperature robustness and very smooth surfaces.
- Þ Starvis® 3040 F is a stabilizer for SLUs and flowing floor screeds with coarse particles and medium to high layer thickness, providing strong shear thinning rheology which reduces pumping pressure.



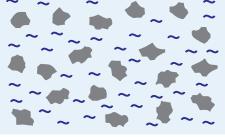
Layer thickness (mm)

Unique stabilization of fine and coarse sand particles with Starvis®

Thin layer SLU

stabilized with Starvis® 3003 F

Efficient stabilization of fine particles by plastic viscosity without influencing yield point (excellent self-healing properties).





in movement



in movement



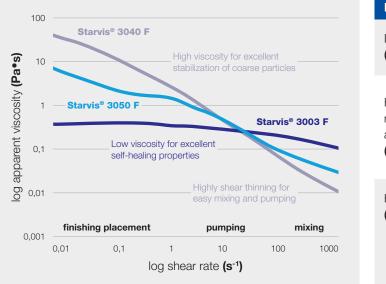
Thick layer SLU or flowing floor screed stabilized with Starvis® 3040 F

Efficient stabilization of coarse sand particles due to intermolecular interaction of Starvis® molecules.



Technical Recommendations

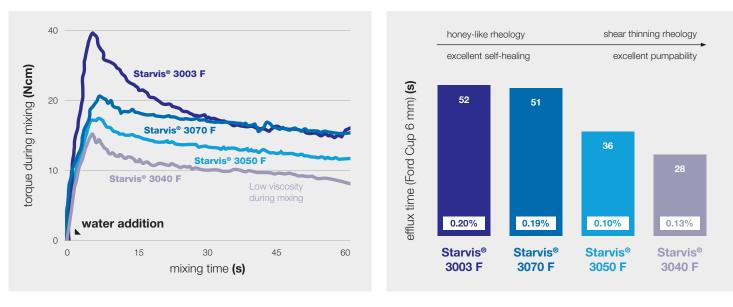
Dosage recommendation for all Starvis® stabilizers: 0.05 to 0.30 % (by weight of dry mortar)



Features	Benefits
Low viscosity at low shear rate	 Excellent
(Starvis [®] 3003 F and 3070 F)	self-healing properties
High viscosity at low shear	• Excellent
rates and fast restructuring	stabilization of fine and
after shearing	coarse filler particles
(Starvis [®] 3040 F and 3050 F)	after placement
Highly shear thinning	 Easy mixing and pumping Fast flow speed Allows good flow and
(Starvis [®] 3040 F)	levelling during movement

Mixing and pumping behaviour of SLU with different Starvis® types

Starvis[®] 3070 F and in particular Starvis[®] 3050 F and Starvis[®] 3040 F provide low mixing resistance in screw mixing pumps. Starvis[®] 3040 F and Starvis[®] 3050 F provide faster flow speed compared to Starvis[®] 3070 F and Starvis[®] 3003 F.



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

This information and all further technical advice are based on our current knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of goods. Performance and suitability of the product described herein have to be verified by testing, which has to be carried out only by qualified experts in the sole responsibility of the customer. Reference to trade names used by other companies is neither a recommendation nor an implementation that similar products could not be used. The customer is obliged to keep the disclosed samples and any related information under strict confidence and shall neither analyze such samples nor disclose them to third parties. In addition our general terms and conditions for sale are valid. This technical note is valid until replaced by a new issue. (B) = Registered tradmark TM = Trademark of the BASF Group, unless otherwise noted (11/2019)

BASF Construction Additives GmbH Dr.-Albert-Frank-Strasse 32 83308 Trostberg / Germany Phone + 49 8621 86 - 10 Fax + 49 8621 86 - 2002 www.construction-additives.basf.com construction-additives@basf.com