

1. Product Description

SN Flux® 453 is a delayed-activation polycarboxylate ether designed for formulating water-reducing admixtures with enhanced slump retention.

2. Uses

SN Flux® 453 is suitable for formulation of high-range water-reducing/superplasticizing admixtures where an enhanced slump retention performance is needed. **SN Flux® 453** has a delayed activation profile. It has a low plasticizing effect right after the concrete is mixed.

Over time, more of the polymer is activated and slump loss is avoided. For higher initial flow, it must be used together with other SN Flux® products.

3. Safety

Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. The required safety measures must be taken during the application of the material and the applicators must use protective clothing, gloves and goggles. Emptied packages must be disposed of in compliance with relevant regulations and laws.

4. Storage

Products must be stored between +5 °C and +35 °C in dry, ventilated storage areas protected from direct sunlight. Under these conditions, the material will retain its properties in unopened containers for 12 months from the production date. Protect the product from freezing.

Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

5. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended purpose and for all conditions of transport, storage, application, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.

Water-Based Polycarboxylate Ether (PCE) Solution for the Production of Concrete Admixtures

Highlights

- Delayed activation type
- Can be blended with other SN Flux® grades to provide good slump retention
- Can be used for precast or ready-mix concrete
- Low air entrainment
- 55% Polycarboxylate ether



6. Technical Data

Property	Method	Result
Appearance - Color		Transparent, amber to yellow
Odor		Characteristic
Chemical Composition		Polycarboxylate ether polymer solution in water
Density @20 °C	EN ISO 2811-2	1.12 ± 0.01 g/cm ³
pH (23 ± 1 °C)	ISO 4316	6 ± 1
Solids Content (by weight)	EN ISO 3251	55% ± 1%
Viscosity	EN ISO 3219	900 ± 180 cP
Chloride Content	EN 480-10	Contains no chloride
Shelf Life		1 year
Packaging		Bulk or 1,100 kg IBCs
Use		Delayed activation for slump retention

Stenkim[®] reserves the right to make changes to the values in this table at any time.

