



## Plasticizer for the ready-mix concrete industry

### HK - IV (BV)

Art. – No. 01.105.

#### APPLICATION AREA:

- For the production of ready-mix-concrete, pumped concrete, exposed and site-mixed concrete in general building construction, excavation, and civil engineering during warm weather conditions.
- The application of HK – IV (BV) is used to improve the characteristics of unset and hardened concrete.

#### CHARACTERISTIC:

HK – IV (BV) causes as desired through a reduction of the mixing water surface tension a liquefaction effect for increasing the consistency or the reduction of the mixing water to increase the compression and bending tensile strength.

HK – IV (BV) facilitates as desired

- a better settling capacity at the same w/c-value.
- a reduction of the w/c-value at the same consistency.
- high initial and final strength.
- the conservation of cement.

#### TECHNICAL SPECIFICATIONS:

Raw material base	ligninsulfone
Color:	brown
Form:	liquid
pH – value:	4,5 ± 1
Density (at 20 °C):	1,08 ± 0,02 g/ml
Chlorine content:	≤ 0.10 M-%
Alkali content:	≤ 8,5 M-% (as Na <sub>2</sub> O-equivalent)
Valid solids content:	19,0 – 21,0 M-%
Settling temperature:	over + 5 °C
Shelf life:	approx. 12 months
Storage:	do not expose to sunlight and frost during storage; protect against contamination

# TECHNICAL DATA SHEET

## DOSAGE:

Recommended dosage range: 0.4 – 1.4 M-% of the cement weight.  
The required amount of additive is based on the concrete characteristics in demand and must be determined during an initial test in accordance with DIN EN 206-1.

## PROCESSING INFORMATION:

- The dosage of HK-IV (BV) should take place at the factory with the last third of the mixing water or after it is completely added.
- Make sure that sufficient mixing time is allocated.
- Please observe the standards outlined in DIN EN 206-1 and DIN 1045-2 when using concrete additives.

## VERIFICATION OF SUITABILITY / CERTIFICATION:

- complies with DIN EN 934 – 2 table 2: Plasticizer
- complies with DIN V 18998
- applicable in concrete with alkali sensitive aggregate according to DIN V 20000-100, Section 8.2
- complies with the requirements of ZTV-ING
- certification number of the plasticizer: 0672 - CPD - 1107

## WORK SAFETY:

- not a hazardous material according to the ordinance on hazardous substances
- not a hazardous material in terms of the transportation guidelines
- WGK 1 (self classification) low hazardous to waters
- observe the safety data sheet

## FORM OF DELIVERY:

30 kg                    PVC – can bfn  
220 kg                  Poly-drum bfn  
1000 kg                Container net  
Tanker truck delivery on request

## NOTE:

Always observe general work hygiene when using our products. The raw materials we process and the products we produce are subject to strict factory inspections. We reserve the right to make changes that signify a technical advance. All the information applies to the normal case scenario, and has been given to the best of our knowledge. We cannot be held legally liable as a result of the information included in this leaflet. It is stressed that our products and the procedure must be tested for suitability with your circumstances.

EFFECTIVE: 09/11