



# KOROPLAST 1 (FM)

highly efficient plasticizer

**FOR THE PRODUCTION OF "CONCRETE WITH PLASTICIZER" AS WELL AS "LEVELLING" CONCRETE**

## DESCRIPTION

KOROPLAST 1 (FM) approved by the Institute for Building Techniques in Berlin, is a highly efficient plasticizer for high grade concrete and has a very high plasticizing effect.

## APPLICATION

KOROPLAST plasticizer is used for concrete with best workability and very good working properties. KOROPLAST plasticizer allows an excellent plasticizing of the basic concrete by up to 2 consistency steps:

| Consistency | KP      | KR      | KF      |
|-------------|---------|---------|---------|
| A (cm)      | 35 – 41 | 42 – 48 | 49 – 60 |

## PROPERTIES

KOROPLAST plasticizer allows

- earlier „fresh-on-fresh“ installation of the KORODUR hard aggregate topping
- better dispersion of the cement
- reduced frictional forces between cement and aggregates
- improvement of workability at unchanged water-cement-ratio
- reduction of the water-cement-ratio at unchanged workability
- better homogeneity
- higher early and final strengths
- reduced shrinkage and creep

## TECHNICAL DATA

### KOROPLAST 1 (FM):

No. of approval: Z-3.28-1707  
 form: liquid, light yellow  
 active agent: melamine sulphonate  
 volume weight: (20°C):  $1,12 \pm 0,03 \text{ g/cm}^3$   
 chloride contents:  $\leq 0,1 \%$   
 max. allowed addition:  
 30 ml per kg cement, i. e. approx. 3,3 %

## PROCESSING

The required mixing time after adding is depending on the used mixer type and must be long enough.

In case of later addition or later dosage in the truck mixer, a uniform distribution of the plasticizer in the concrete must be ensured.

The mixing time should be 1 minute per  $\text{m}^3$ , however, 5 minutes at minimum.

As the plasticizing effect endures only for a limited time period, the plasticized concrete should be processed speedy.

Before use a qualification test acc. to DIN 1045 and the guide lines DafStb for concrete with plasticizer must be carried out.

## PRODUCTION

KORORDUR Westphal Hartbeton GmbH & Co., works Wattenscheid

**Certification: DIN EN ISO 9001:2000**

## PACKAGING

|           |          |
|-----------|----------|
| container | 1.000 kg |
| can       | 220 kg   |
| can       | 30 kg    |

## STORAGE

To be protected from frost and strong sun radiation. In case of frost effect, crystallization can take place which can be removed by stirring and warming up.

Shelf-life in closed can min. 1 year.

## HINT

Our recommendations for application techniques are based on our experiences. It is recommended to adapt processing and material quantities to the given local conditions and we refer in this context to our AGB.

Further literature, processing hints, tender texts and test certificates on the different KORODUR industrial flooring systems, KORODUR floor hardeners, KORODUR dry mortars and special products are available on request.



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