

# DURAHIT® WP/CI 237

Item No 2293

**Organic integral waterproofing and corrosion inhibiting admixture for concrete**

## FIELDS OF APPLICATION

DURAHIT® WP/CI 237 is an organic, high-performance admixture that achieves most effective corrosion protection on two levels: Inhibiting and waterproofing.

DURAHIT® WP/CI 237 is suitable for the following applications:

- All types of reinforced concrete, including pre-cast/ pre-stressed concrete
- All concrete constructions that require corrosion protection, e.g.:
  - Constructions in marine environment
  - Concrete exposed to de-icing salts
  - Sewage- and water treatment plants
  - Concrete infrastructure constructions such as tunnels and bridges

DURAHIT® WP/CI 237 can achieve the following features/ benefits:

- Lines the pores of the concrete matrix and thus slows down the penetration of chlorides and moisture into the concrete and prevents corrosion of the most important components
- Achieves an optimum water repellency
- Capillary and pores are not blocked to allow the concrete to breathe
- Improves the plastic performance of the concrete
- Slight effect on setting time acc. to standard
- No effect on concrete-steel-bond strength
- No effect on slump and temperature development of concrete
- Contribution to sustainability, as the product is organic.

DURAHIT® WP/CI 237 improves the durability of reinforced concrete at the level of the concrete and the rebar and thus leads to its extended service life.

Depending on the concrete mix design DURAHIT® WP/CI 237 might have an influence on the compressive strength of the hardened concrete.

## DOSAGE

Recommended dosage range 0.5 – 2.0 mass-% of the cement content; is equivalent to 5 – 20 ml per kg cement.

## WORKING PRINCIPLE

DURAHIT® WP/CI 237 forms a highly protective, corrosion-resistant layer on the reinforcing steel.

The protective effect of DURAHIT® WP/CI 237 is comparable to that of nitrite, which has been used successfully for many years. DURAHIT® WP/CI 237 is the environmentally friendly alternative to nitrite.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless
State	liquid
Density	1.02 ± 0.02 g/cm³
pH-value	12.0 ± 1.0
Workability	from +1 °C
Shelf life	approx. 1 year from date of production if stored properly.
Storage conditions	store in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation.

## PROCESSING INDICATIONS

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DURAHIT® WP/CI 237 is a ready to use admixture to be added to the ready-mixed concrete.

The mixing time must comply with the regulations defined in EN 206-1.

This product is classified as hazardous according to the CLP regulations. See safety data sheet for further information.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

## REMARKS

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This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indications are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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**SUITABILITY- AND PRELIMINARY TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!**