

TECNOS[®] CORROINHI BP

Additive with Contact and Migrating Corrosion Inhibitor for Reinforced Concretes with Cathodic and Anodic Protection



TECNOS[®] CORROINHI BP is a very concentrated admixture, added in the production process of concrete to achieve a better protection of the reinforcement steel against corrosion. TECNOS[®] CORROINHI BP is not only active in contact with the steel, but also migrates through the concrete porosity to reach the reinforcement to inhibit anodic and cathodic corrosion processes.

TECNOS CORROINHI BP is a superior technical solution to extend the life time expectancy of reinforced concrete subjected to aggressive corrosion promoters such as oxygen, humidity, chlorides from de-icing salts or marine environments etc.

Uses

TECNOS[®] CORROINHI BP is recommended for all the structures in reinforced concrete, normal or pre-stressed, in particular in aggressive situations like bridges, viaducts, exposed concrete facades.

In combination with MuCis AD 28 Tecnos[®] Azur CB/ER, a synergy is created resulting in an even more effective protection against corrosion in time. The product can be used also in the VHDRS Very High Durability Repair and Prevention systems.

Benefits

TECNOS[®] CORROINHI BP is based on organic components, which do not change the physical or mechanical properties of the concrete or cement based mortars. In the meantime, it shall protect reinforcements against corrosion, with the cathodic or anodic function. The product is highly effective, even in presence of chloride salts.

Properties

Appearance	Brownish Yellow Liquid
Solid Content	37-41%
Specific Gravity	1.0-1.10
Viscosity	1-100 cps
pH	10±2

Compatibility

Can be used with all types of cements except high alumina cement. Site trials should be carried out to optimize dosages & compatibility.

Instructions for Use

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, the strength gain or cement reduction to be measured.

Site trials with TECNOS[®] CORROINHI BP should always be compared with the control mix. As a reference, dosage must be from 0.5 to 3.8 kg for a cubic meter of concrete, depending on the mix design and on the environmental exposure. 150-220 gm/m² when used for anticorrosion impregnation of reinforced concrete before repairs with mortars.

Due to the variable site conditions or the concrete materials changes, prior trials are to be conducted. The optimum recommended dosage to be finalized to eliminate the issues like setting, segregation, bleeding etc. prior to onsite usage.

Over Dosing

An over dose of double the recommended amount of TECNOS[®] CORROINHI BP, will alter the workability and setting time.

Dispensing

The measured quantity of TECNOS[®] CORROINHI BP should be added along with the gauging water. For best results, add TECNOS[®] CORROINHI BP in the last phase after pre wetting the mix with 80% of the total water required.

Mix Design

Thermax has an advisory service on Concrete Mix Design and can be contacted if assistance is required.

Health and Safety Instructions

TECNOS[®] CORROINHI BP is non-toxic. Any splashes on the skin must be washed immediately with water. Splashes to the eyes must be washed immediately with water and medical advice should be sought.

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Precautions

Keep stored in protected, temperate and windy areas. Avoid direct sunlight. Use in well ventilated areas only.

Storage

TECNOS[®] CORROINHI BP has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.

Packing

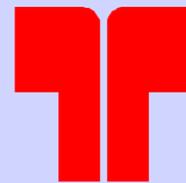
TECNOS[®] CORROINHI BP is available in 5ltr, 20ltr and 250kg barrel.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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