



Very  
High  
Durability  
Reinforced  
Concretes



Certified Quality System since **FEBRUARY 1993**

*From Project to Jobsite*

## MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup>

### SUPERPLASTICIZER CONTAINING CONTACT AND MIGRATING CORROSION INHIBITORS

CE approved – Certificate n. 1305 - CPD - 0017  
EN 934-2 T3.1/T3.2

**Description** MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> is a liquid additive composed out of reactive mixture of corrosion inhibitors and synthetic polymers. MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> is multi functional: MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> can be used as additive to concrete mixes to achieve better protection against reinforcement corrosion. MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> is active not only in contact with the metal, but also it migrates through the micro porosity of the concrete to reach the reinforcement of existing structures to ionise and consequently provide anodic and cathodic protection. MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> 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 deicing salts of marine environments. MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> reduces the water cement ratio seriously in concrete mixes : 15 to 25 % with the same workability.

**Advantages** (With the same workability of concrete)  
MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> allows the following Anticorrosion Multiple Inhibiting Synergies

- Anodic and cathodic protection
- Contains migrating corrosion inhibitors.
- Contains contact corrosion inhibitors.
- Contains passivating functions.
- Reduction of the chloride permeability (FHWA/RD/81) : 350÷600 Coulomb
- Reduction of carbonation : > 80 %
- Reduction of the corrosion potential  $\geq 75$  %

The same workability of concrete can be obtained using 25 to 35 % less water to prepare the mix. This results in a serious increase of the mechanical resistances, decrease of the permeability, reduction of curing time, and a better resistance against frost-thaw decay, and aggressive substances.

**Method of use** MuCis<sup>®</sup> ad 28 Tecnos<sup>®</sup> is advised for all structures in reinforced concrete, normal or prestressed, in particular in aggressive situations like bridges, viaducts, exposed concrete facades.

In case the extension of workability time of the concrete is desired, the mix can be modified using PLASTARD<sup>®</sup> 18 (0,05 to 0,15 % on the cement weight) . This special mix design must be tested first on the jobsite to evaluate if it matches the requirements.

**Packaging** Can of 20 Kg.  
Drum of 220 Kg.  
IBC of 1200 kg.

**Storage** The product can be kept for at least 1 year if stored in dry and protected conditions, in the original unopened packaging, at temperatures between +1 °C and + 35 °C.

**Dosage** 1,5÷3,0 Kg. for 100 kg cement



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**Specifications** MuCis® ad 28 tecnos® meets the essential requirements according to EN 934-2 Normative, Classification T 3.1/T 3.2 according to CE marking for Concrete Admixtures. Furthermore, its own performances meet and exceed the limits imposed by all the specifications concerning the concrete technology.

**Precautions** Use only in well ventilated areas and protect from freezing.

**Safety indications** Read carefully the safety indications on the packaging, or consult the relevant safety data sheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below.

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Nr. rev.: 1

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