



la marque
du bâtiment

EURO GEL

SET AND HARDENING ACCELERATOR

Compliant with requirements EN 934-2: T.6

Marking



1. PRESENTATION

EURO GEL is a powerful liquid additive that accelerates the setting and hardening of concrete and mortar.

The purpose of the accelerator effect is increase the cement components dissolution rate, thus allowing for faster hydration and the generation of heat that causes accelerated hardening of concrete within 4 hours of its application and protects it against frost down to -10°C.

EURO GEL also increases the mechanical strength in the early stages, whilst also maintaining long-term strength.

2. ADVANTAGES

- Very effective against carbonation.
- Setting and hardening times significantly reduced.
- Protects against disintegration.
- Greater initial and final strength.
- Improved manufacturing cycles.
- Quicker reuse of moulds for prefabricated parts.
- Protects concrete down to -10°C, once the cement has set.
- Reduces the mixing water.
- Lowers the freezing point of water.
- Improves the compactness of concrete.
- No effect on the final strength.
- Reduces the risk of shrinkage and crazing.

3. AREAS OF APPLICATION

EURO GEL meets the requirements of cold weather concreting in the winter (risk of temperature drop):

- Increased production rates.
- Quick handling of parts.
- Frost protection of concrete (shuttered, heated, steam-cured, reinforced), mortars, coatings.

EURO GEL is also recommended for prefabricated elements made of concrete (in both summer and winter).

- Accelerated rotation of moulds.
- Mass concreting.
- Faster manufacturing.

4. INSTRUCTIONS

EURO GEL is miscible with water in any proportion with Class R cements and all standard binders (CPA, CPJ).

Mix sand, gravel, cement.

EURO GEL must always be added to the mixing water.

Incorporate into the aggregates and complete with water.

The mixing water must be reduced by 10%.

The mixing time shall be 3 to 5 minutes after the additive has been incorporated.

EURO GEL is supplied with a 400 ml graduated measuring cup.

250 ml are generally used per bag of cement of 35 kg.

For ready to use coatings, usually 250 ml for 3 bags of 25 kg.

Dose: Minimum 0,5% of the weight of cement (i.e. 4 ml for 1 kg of cement).
 Maximum 3.0% of the weight of cement (i.e. 20 ml for 1 kg of cement).
 Minimum 2.0% of the weight of hydraulic lime (i.e 16 ml for 1 kg of lime).

EURO DORTHZ PRODUCTION

42/44 rue Georges Besse — 63100 Clermont-Ferrand — FRANCE
Tel. +33 (0) 4 73 14 40 40 / Fax +33 (0) 4 73 14 40 44
Website: www.dorthz.com





la marque
du bâtiment

EURO GEL

SET AND HARDENING ACCELERATOR

Compliant with requirements EN 934-2: T.6

Marking



% of EURO GEL by weight of cement	0.5	0.75	1.0	1.5	2.0	2.5	3.0
Volume (L) for 100 kg of cement	0.340	0.500	0.680	1.00	1.360	1.700	2.00
Volume (L) for 35 kg of cement	0.100	0.175	0.250	0.350	0.450	0.600	0.700

Dosage EURO GEL	0.75%	2%	2%
Ambient temperature	7°C	5°C	20°C
Reduction of setting time	50%	65%	50%

Laboratory tests carried out with CPA cement

Compatibility: product compatible with the Dorthz range of additives (except **RETARPRISE** and **MAXI RETARD**).

EURO GEL has no effect on non-hydraulic lime.

Precautions: In winter,

Use **EURO GEL** as per the recommendations for cold weather concreting.

Do not use frozen aggregates and formwork (they shall be stored under cover), and do not underdose the product.

Preferably use formwork made of wood, which is less conductive of cold than metal.

Protect fresh concrete against the wind using tarpaulins (not plastic sheets), in order to keep the heat generated. Reduce the mixing water.

If used with other products (especially those that reduce the amount of cement), suitability tests shall be carried out systematically.

Shake before use, if the product has been stored for an extended period of time without being used.

Application:

- Application conditions** : Compliant with standard EN 934-2
- Dosage** : 0.5 to 3% of the weight of cement (i.e. 0.34 L to 2 L for 100 kg of binder)
- Cleaning of the equipment** : Water (do not allow to dry)

EURO DORTHZ PRODUCTION

42/44 rue Georges Besse — 63100 Clermont-Ferrand — FRANCE
Tel. +33 (0) 4 73 14 40 40 / Fax +33 (0) 4 73 14 40 44
Website: www.dorthz.com





la marque
du bâtiment

EURO GEL

SET AND HARDENING ACCELERATOR

Compliant with requirements EN 934-2: T.6

Marking



5. CHARACTERISTICS

Appearance in container	: Slightly amber-coloured liquid
Density	: $1.47 \pm 0.05 \text{ g.cm}^{-3}$
Cl ⁻ content	: < 20% by mass
Freezing point	: -25°C
Shelf life	: 1 year in its unopened original packaging

(For more information, please refer to paragraph 9 of the safety data sheet).

6. SAFETY OF USE

- See the product's Safety Data Sheet at www.quickfds.fr.
- Not to be used in prestressed concrete and heated floors.
- Store at low temperature. Can freeze when undiluted, but recovers its qualities after thawing.

The details provided in this Data Sheet are given in good faith, for information purposes only. They shall not in any case constitute a guarantee on our part, or engage our responsibility when using our products. This Data Sheet supersedes all previous versions. Compagnie France Chimie reserves the right to make changes to its products and to this data sheet without prior notice. Our clients shall ensure, before any implementation, that these instructions have not been replaced by a more recent version that takes into account new technical data.

Product solely intended for professional use.

EURO DORTHZ PRODUCTION

42/44 rue Georges Besse — 63100 Clermont-Ferrand — FRANCE

Tel. +33 (0) 4 73 14 40 40 / Fax +33 (0) 4 73 14 40 44

Website: www.dorthz.com

