MAPEFAST HA

Hardening accelerator for concrete and mortar

EN 934-2

DESCRIPTION

Mapefast HA is a liquid hardening accelerator for concrete and mortar to ensure higher early strength. Though the admixture is specially developed for cement-based products in which fly ash is incorporated it can be advantageous in all cement-based products. It complies with EN 934-2 as Table 7.

WHERE TO USE

· Concretes where high early strength and/or early stripping is required;
· Casting at lower ambient temperatures;
· Concretes and mortars containing fly ash.

TECHNICAL CHARACTERISTIC

Mapefast HA is a unique mix of different chemical components that yield considerably higher early strength in concrete and mortar, even at low temperatures. Most prominently this can be observed in concretes containing blended cements (as fly ash or slag). The hydration heat is liberated at an earlier stage, thus establishing strengths much quicker than standard concretes without **Mapefast HA**.
Through this, it is ensured that the concrete reaches a mechanical strength necessary before stripping and also a strength that allows the concrete to freeze without permanently damaging the concrete. According to EN 13670, one must ensure that the concrete temperature does not fall below 0°C in any place before it has reached a compressive strength of 5 MPa. By **Mapefast HA** this requirement is easier to fulfill, but during winter months the use of **Mapefast HA** should always be combined with active protection of the concrete after placing. **Mapefast HA** does not contain chlorides that can initiate/cause corrosion of reinforcement.
Mapefast HA does not affect the slump value or air content of the fresh concrete and does not significantly interfere with the concrete's workability retention.

COMPATIBILITY WITH OTHER PRODUCTS

Mapefast HA can be combined with other Mapei admixtures, e.g. super-plasticisers in the **Dynamon** series for improved workability, and **Mapeair** entraining agents for the production of frost-resistant concrete.

DOSAGE

Normal dosage in concrete is between 0.8 and 4.0 % by weight of cement. Higher dosages will only slightly improve the early strength. **Mapefast HA** is activated independently of the mixing procedure of the concrete. To achieve the best dispersion of the admixture within the mix, addition at the same time, or even together with the mixing water is recommended.
It is also possible to add **Mapefast HA** directly into the drum mixer, but then the minimum required mixing time is one minute per m^3 of concrete in the drum, but never less than 5 minutes.

PACKAGING

Mapefast HA is available in 200 L drums, 1000 L IBCs and in bulk on request.

STORAGE

The product must be stored at temperatures between +8 and +35°C, and will retain its properties for at least one year if stored unopened in its original packaging. If the product is exposed to direct sunlight, colour variation may occur, but this will not affect the technical properties of the product.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefast HA is harmful if swallowed and may cause damage to the eyes. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

TECHNICAL DATA (typical values)	
PRODUCT IDENTIFICATION	
Consistency:	liquid
Colour:	pale yellow
Viscosity (Brookfield Viscometer DV-1, LV1, 100rpm ved 20°C ± 2°C):	easy flowing; < 30 mPa*S
Density according to ISO 758 (g/cm³):	1.10 ± 0.03 at +25°C
pH (ISO 4316):	11 ± 1
Classification according to EN 934-2	hardening accelerating admixture. Table 7
Chlorides according to EN 934-2:	<0.05
Alkali content (equiv. Na_2O) %:	< 7.0

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

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