

MasterPolyheed[®] 3040

Super Plasticizing Admixture for Pre-Cast reinforced concrete products and structures.

DESCRIPTION

MasterPolyheed 3040 is used for manufacturing of any types of pre-cast reinforced concrete products and structures. It is used for preparing concrete mixes of any flowability level, from dry-earth to highly flowable. It can be used for ready mix-concrete with low water/cement ratio, in cases, when slump retention (in excess of 1 hour) maintaining of flowability is not required.

ADVANTAGES

- Obtaining concrete mixtures with high flowability, strength and specific gravity at lower water/cement ratio, thus allowing decreased cement consumption;
- Allows obtaining concrete mixture with lower viscosity with the same flowability compared with the ones with polycarboxylate-based admixtures;
- Allows reduction of time and/or temperature of steam curing, or complete elimination of steam curing, thus allowing saving of energy resources and substantial decrease of costs for steam curing (complete elimination of steam curing is possible in warm seasons), and faster turnaround of shutters and increasing quantity of final products;
- Effectively compatible with all cement types;
- Less vibration is required for concrete mixture upon formation of products, or even complete elimination of vibration is possible, thus allowing saving of energy resources for the process and also lower noise and vibration impact;
- It is used for concrete mixes designed for pre-stressed structures;
- It can be used for self-consolidating concrete mixes;
- High quality of concrete surface finish;

APPLICATION

Adding to dry mix is prohibited! Admixture should be introduced with mixing water (preferably with the last third of water). The best results are obtained when the admixture is added to the concrete mix upon introduction of all mixing water. In any case sufficient mixing time should be ensured upon adding the admixture.

DOSAGE

Recommended dosage rate is 0.3-2.0% of cement mass. Exact quantity of admixture should be determined in laboratory by performing trial batches.

COMPATIBILITY

MasterPolyheed 3040 is compatible with air-entraining admixtures of MasterAir series, viscosity modifiers MasterMatrix 100, water-based micro silica suspension MasterLife 500 S. Effect from use of MasterPolyheed 3040 is substantially enhanced in combination with curing accelerator Master X-Seed 100. It is not recommended to use it in combination with naphthalene-based superplasticizers, as it results in lower plasticizing effect and greater dosage of admixture. When using other admixture they should be tested for their compatibility with MasterPolyheed 3040.

Characteristics	Value
Appearance	Homogenous liquid of yellow color
Specific gravity, at 20°C, g/cm ³	1.06±0.02
pH	4-7
CL-ion content, %wt., not more than	0.1



We create chemistry

MasterPolyheed[®] 3040

PACKAGING

MasterPolyheed 3040 is available in 20 kg cans, in 1,000 kg containers and in Bulk.

SHELF LIFE

The minimum shelf life of the material in closed factory package is 12 months. It should be stored in conformity with manufacturer's instructions.

STORAGE CONDITIONS

The product should be stored at a temperature no lower than +5°C. Avoid direct sunlight, protect against high temperatures. Non-compliance with recommended storage conditions may result in modification of product characteristics.

SAFETY MEASURES AND TRANSPORTATION

It is recommended to use protection gloves and glasses. Wash with water upon skin contact. Avoid contact with mucosae, upon such contact wash with large amount of water. MasterPolyheed 3040 is a non-flammable and non-toxic product; therefore, there are no special recommendations for transportation.

Product is certified

Manufacturing conditions and specifics of use of our products are different for each case. We are able to provide only general instructions for use. These instructions are in line are based on our present knowledge and experience. Consumer is solely responsible for non-compliant use of the product. Specialists of BASF Construction Systems OOO should be contacted for additional information and recommendations.

Represented information is based on our current experience. In case of various factors affecting the result, information does not mean legal responsibility. For additional information, please contact your local advisor.

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