



HERKULIT BINDER

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AS PRIMER

Description:

Herkulit Binder is a ready-mixed cement-based special product. When it is mixed with water, the binder forms a thin liquid paste which has a high level of bonding strength.

Usage:

Herkulit Binder is used as a spatter dashing mortar (primer) in order to ensure good bonding for cement-based mortar on concrete base that has already hardened. (See separate description). The mortar should be laid in a continuous process, wet in wet. The Herkulit binder must not dry before the mortar is applied (wet in wet), this can give a result of adhesion loss. The surface layer for the binder must be carefully moistened before priming and any water puddles must be removed before usage.

Mixture ratio:

Mix 25 kg Herkulit Binder with 7-7.5 litres of water.

Mixing the Herkulit Binder:

When mixing with a drilling machine: pour the indicated amount of water into a suitable mixing container. Slowly add the dry binder during stirring. Mix for minimum 5 minutes.

Laying Herkulit Binder:

The binder is carefully brushed into the moistened, finished concrete surface with a stiff brush. A "ABS" machine with brushes may be used with good result.

The Concrete Base:

To achieve a satisfactory bonding of Herkulit Binder to the existing concrete base, the strength and structure of the surface is of crucial importance. If there is any doubt as to whether the concrete base can meet the set requirements, a tensile strength test should be carried out on a trial layer, or if necessary cores drilled out for closer analysis.

Requirements:

The surface of the base concrete must fulfil the following minimum requirements after completion:

Bonding:

Minimum 1.5 Mpa (15 kg/cm²).

The surface:

The surface should have a structure equivalent to min. 2 mm/max. 30% of the thickness of the top layer. The surface must be free of slurry, cement film and impurities.

Levelness:

The base concrete should be laid sufficiently level that the thickness of the concrete/mortar can be kept within the given margins.

Directions:

If the compression strength of the base concrete is a minimum of 30 MN/m² and is generally of good quality and free of impurities, the above requirements concerning bonding can be expected to be fulfilled after blasting/milling and cleaning of the surface



Milling/blasting:

Should be carried out over the entire surface, as well as in the vicinity of walls, pillars etc. If the machines are not able to access right to the edges, this is done by hand. After blasting/milling of existing concrete, any necessary repairs to cracks, edge cleaning, old joints etc. can be undertaken.

Cleaning the surface:

After blasting/milling, the concrete must be thoroughly cleaned: vacuum cleaning, high-pressure washing etc., depending on the condition and structure of the surface.

Contraction joints:

(Instructions for joints) It is recommended that old joints that are moving are sawn over.

Applying water and covering:

If the base concrete is not saturated with water after cleaning, water should be applied to it. Depending on the temperature conditions and the density of the concrete, it is recommended that application of water should commence 8-24 hours before laying the binder. Cover with plastic film to avoid drying out. (Uncover concurrently with pouring.) Just before priming with the binder, the surface should be vacuum dewatered to remove any pools of water. In cases in which the surface has dried in patches, water can be sprayed using a sprayer, preferably a 'Gloria' model, to wet these areas immediately before laying the top layer.

Directions:

The concrete should be mixed and laid so that minimal shrinkage strains occur. This can be achieved, for example, according to the following:

Typical composition:

Type of cement: Building cement max. 350 kg cement/m²

Use fine aggregate material containing grain with a good curve.

Additives such as water reduction/liquid agents can be used (Lino flow).

Maximum WCR 0.5.

Slump 60-90 mm.

A finished concrete with a compression strength of 30 Mpa fulfils normal requirements.

Colour:

Grey

Packaging:

Herkulit Binder is supplied in 25 kg sacks on pallets of 1000 kg.

Material Usage:

When mixed with 7 litres of water, 25 kg Herkulit Binder produces about 14 litres of prepared mortar. Material usage is about 1-1.5 kg binder per m² depending on the base layer.

Cleaning of tools etc.:

Tools etc. are cleaned in water before hardening has commenced. Binder that has set can be removed mechanically.

Safety:

Safety rules are the same as for handling ordinary cement-based products. In general, refer to industrial hygiene instructions.

AB Lindec endeavours to provide correct information about technical properties and handling of its products. However, while AB Lindec has no control over the way in which the products are mixed and laid, or the conditions under which they set, AB Lindec can in no way be held responsible. AB Lindec is only responsible for the quality of the products at the time of delivery.