HERKULIT

LAYING INSTRUCTIONS
HERKULIT PRIMER

Mixture ratio Herkulit Primer
Mix 15 kg Herkulit Primer with 4,35-4,50 liters of water.

Mixing Herkulit Primer
Herkulit Binder is carefully mixed in a paddle mixer or with a whisk on a powerful drilling machine.

When mixing in a paddle mixer
1.) Pour Herkulit Primer into the paddle mixer and add 2/3 of the indicated amount of water.
2.) Mix for 3 minutes.
3.) Add the remaining 1/3 of the water.
4.) Mix for a further 3 minutes.

When mixing with a drilling machine/whisk
1.) Pour the indicated amount of water into a suitable container.
2.) Slowly add the dry Herkulit Primer during stirring.
3.) Mix for 5 minutes.

Laying Herkulit Primer
The Herkulit Primer is carefully brushed into the moist, finished concrete surface with a stiff brush. (A walkbehind trowel or grinding machine with brushes may be used).

Description
To achieve a satisfactory result when laying Herkulit Primer it is important that the base concrete is correctly mixed and laid. The surface and structure of the base concrete is of crucial importance for the bonding of the top layer. If there is any doubt as to whether the base concrete can satisfy 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
In order to ensure that Herkulit Primer can function optimally, the base concrete must fulfill the following requirements:

Bonding
The surface tensile strength should be 1.5 MPa (15 kg/cm^2) at the time of laying Herkulit Primer.

The surface
The surface should have a structure equivalent to minimum 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 sufficiently evenly that the thickness of the concrete/mortar can be kept within the given margins.

Directions
a.) If the compression strength of the base concrete is a minimum of 35 N/mm^2 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.
b.) The concrete should be mixed and laid so minimal shrink tensions appear. This can be achieved, for example, according to the following:

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c.) Type of cement: Portland cement.
d.) Use fine aggregate material containing grain with a good curve.
e.) Additives such as water reduction/liquid agents can be used.
f.) Max VCR 0.55.
g.) Slump 60-90 mm.

Blasting/milling

Blast/mill the surface. The surface structure should be equivalent to minimum 2 mm/max 30 % of the thickness of the top layer. The surface should be free of slurry and cement film. Blasting/milling 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. Before blasting/milling of existing concrete, any necessary repairs to cracks, edge cleaning, old joins etc. should be undertaken.

Cleaning the surface

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

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 Herkulit Primer. Cover with plastic film to avoid drying out. Uncover concurrently with pouring. If there is any free-standing water on the surface, it must be vacuum dewatered before priming.

Packaging

Herkulit Primer is supplied in 15 kg sacks on pallets of 510 kg.

Material usage

15 kg of Herkulit Primer produces about 8,5 liters of prepared mortar when mixed with 4,35-4,50 liters of water. Material usage is about 0.8-1.0 kg binder per m^2 depending on the base layer.

Cleaning of tools etc.

Tools and equipment should be cleaned with water before Herkulit Primer mortar dries.

Safety

Herkulit Primer cement-based and is non-toxic to use. When the powder comes into contact with water the mortar becomes alkaline. Always use a protective face mask, protective clothing and gloves while mixing.

Storage

Sacks of Herkulit Primer should be stored on pallets and kept dry, under these conditions the material will keep for at least 6 months.

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.

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