



INNOVATION | SUSTAINABILITY | EXCELLENCE

NIRMAAHAN

NGPL MicroEx PHF





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Single component polymer modified cementitious pinhole filler specially for pre-fab concrete structures, and other concrete slabs, columns, beams etc. (0-3mm thickness)

NGPL- MicroEx PHF is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent cementitious mortar. It exhibits excellent thermal compatibility with concrete, and is fully compatible with other **NGPL** range of mortars and protective coatings

USES

NGPL- MicroEx PHF is designed for application to minor imperfections in concrete and masonry surfaces. It is suitable for application in the range 0 to 3 mm, and can be used in the following situations :

- * Filling pinholes prior to overcoating
- * Repairing small imperfections in pre cast structures.
- * Repairing Columns, beams and other RCC surfaces.
- * General reprofiling over large areas, up to 3 mm depth
- * Fairing coat (**NGPL- MicroEx FC**) can be applied post repair by **NGPL- MicroEx PHF**

ADVANTAGES

- * Cost effective - no independent primer necessary
- * Time saving - curing not necessary
- * High performance - excellent bond to the substrate

ESTIMATING

- * 25 kg bags & 40 kg laminated bag packing.

APPLICATION

Preparation

Clean the surface and remove any dust, unsound material, oil, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scrubbing or grit-blasting. The cleaned areas should be blown clean with oil-free compressed air before continuing. All prepared areas should be thoroughly soaked with clean water immediately prior to the application of **NGPL- MicroEx PHF**. Any residual surface water should be removed prior to commencement.



APPLICATION

Mixing

Care should be taken to ensure that **NGPL- MicroEx PHF** is thoroughly mixed. Small quantities (up to 5 kg) can be mixed using a suitable mixing drum or bucket. Greater quantities should be mixed using a forced-action mixer.

If mixing small quantities by hand, **NGPL- MicroEx PHF** should be volume-batched. Add 3 volumes of the **NGPL- MicroEx PHF** powder (loose-filled to excess and struck off level with the top of the measuring container) to one volume of potable water. This should be mixed vigorously until fully homogeneous.

Application

Apply the mixed **NGPL- MicroEx PHF** to the prepared substrate, up to 0-3 mm thickness, by steel trowel. It should be applied with the minimum of working and be allowed to partly set before finally trowelling to a smooth finish.

If a very smooth finish is required, a small amount of water may be flicked on to the surface of the **NGPL- MicroEx PHF** with a paint brush prior to final trowelling.

Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

Finishing

NGPL- MicroEx PHF is finished by striking off with a straight edge and closing with a steel or plastic float. Note that water can be drawn to the surface if 'overworking' with the float occurs, and an unsightly finish may result.

Damp sponges or plastic floats may be used to achieve a desired surface texture, but care should again be taken not to overwork the surface.

Curing

Curing is not generally required. However, under extreme conditions - high temperatures and drying winds - it may be prudent to use curing compound as a curing agent.

LIMITATIONS

NGPL- MicroEx PHF should not be used when the temperature is below 5°C and falling.

Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

The product should not be exposed to moving water during application or prior to initial set.



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PROPERTIES

The following results were obtained at a liquid:powder ratio of 0.3:1 by weight or 1:3 by volume.

Test method	Typical result	
	@ 20°C	@ 35°C
Coefficient of thermal expansion	7 to 12 x 10 ⁻⁶ /°C	
Working life (Approx.)	45 mins	20 mins
Setting time (BS 5075)	60 mins	45 mins
Fresh wet density	2000 kg/m ³	
Compressive strength @ 28 days	20 N/mm ²	

STORAGE

Shelf life

NGPL- MicroEx PHF have a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs @ 25°C.

Storage conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperatures and/or high humidity conditions the shelf life may be considerably reduced to 4 to 6 months.



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