



# Nafufill®

## Acrylic Polymer based universal Bonding Agent

### Product Properties

- Provides an efficient adhesion and bonding of mortars, concrete and plaster to old hardened concrete or mortars bases
- **Nafufill®** admixed mortars are easy to work with and can be drawn to very thin layers
- **Nafufill®** increases the elasticity of the mortars and concretes and therefore prevents the formation of stress cracks in the hardened and set mortars or concretes
- **Nafufill®** increases the resistance of the screeds, plasters and concrete against attack by oils

### Areas of Application

- Waterproofing mortars and slurries
- Repair and patching mortars for efficient repairs of screeds, steps, and similar damages on concrete and mortars surfaces
- Leveling and smoothing mortars for thin layer applications
- Mortars to bond tiles efficiently to wall and for laying tiles on floors using thin bed method
- Bonding slurry between hardened concrete and fresh toppings of concrete or mortars
- Repair mortars for mending damaged spots in precast concrete industry, pipe lines, etc.
- Dado mortars subjected to high wearing and exposed to water
- Bonding mortars for bonding for hard-burned bricks, asbestos cement, natural stones, tiles etc.
- Cement screeds, gypsum and lime plaster

### Application Notes

#### General

**Nafufill®** is a high quality; saponification resistant, liquid resin latex dispersion for improving adhesion and strengths of all types of commonly used mortars. It is suitable as an admixture for concrete, cement mortars, lime and gypsum mortars for obtaining waterproof concretes and mortars.

The addition of **Nafufill®** to mortars improves the bond between the old surface and the new mortar, increases resistance of the toppings against wear and renders the mortars watertight. Additionally, it improves the workability and water retaining capacity of the mortars. All these extraordinary properties of **Nafufill®** promote it to be an indispensable aid for all types of mortars made from cement, lime and gypsum plasters and concrete.

#### Application

##### Surface Preparation

The base should be clean, free and loose materials and dust. It should also be free from oils, fats, and similar contaminations. The prepared bases should be slightly wet before the application of forthcoming layers.

In case of smooth or uneven bases it is advisable to apply a coat of **Nafufill®** admixed slurry. The following proportions are recommended for the preparation of the slurry, one part of standard cement to one part of clean sharp sand of grading 0/1 mm should be dry mixed. **Nafufill®** should be added to the mixing water in a ratio of one part **Nafufill®** to two parts of water. The mixing water should be added to the dry mix until slurry is obtained.

The above-mentioned applications of **Nafufill®** are a few examples for usages of **Nafufill®** admixed mortars and plasters.

Depending upon the nature of the individual requirements **Nafufill®** can be mixed with almost all types of mortars and concrete where a good bonding and even finish are required criteria.

Recommended mixing ratios are presented in the next section. Slight variations in these proportions are allowable depending upon site requirements.



## Further Instructions / Precautions

### Recommended mixing ratios for various applications

Type of Application	Application Details	Mixing Ratio (Parts by Volume)
Bonding slurry for bonding new layers to hardened bases		1 pbv Cement : 1 pbv Sand 1 pbv <b>Nafufill</b> : 2 pbv water
Patching and repair mortars	Up to 10 mm thick	1 pbv Cement : 2 pbv sand 1 pbv <b>Nafufill</b> : 2 pbv water
	Above 10 mm thick	1 pbv Cement : 3 pbv sand 1 pbv <b>Nafufill</b> : 3 pbv water
Cement screeds with high abrasion resistance and high elasticity	Up to 30 mm thick	1 pbv <b>Nafufill</b> : 4 pbv water
	Above 30 mm thick	1 pbv <b>Nafufill</b> : 6 pbv water
Leveling and smoothing mortars With increased oil and petrol resistance		1 pbv Cement : 1 pbv Sand 1 pbv <b>Nafufill</b> : 2 pbv water
Plastic reinforced mortars for plaster bonding and joint mortars, with better bonding and high weather resistance	Cement mortars	1 pbv <b>Nafufill</b> : 5 pbv water
	Lime and lime cement mortars	1 pbv <b>Nafufill</b> : 10 pbv water
	Joint Mortars	1 pbv <b>Nafufill</b> : 2 pbv water
	Bonding Mortars	1 pbv <b>Nafufill</b> : 2 pbv water
For better adhesion of lime paint (used as whitewash)		2 kg <b>Nafufill</b> to 10 parts lime whitewash

## Technical Data For Nafufill®

Characteristic	Unit	Value	Comments
Specific gravity		1.06	
Consumption		Please Refer to Mixing ratios in Table above	

## Product Characteristics for Nafufill®

<b>Type of Product</b>	Acrylic Polymer based Universal bonding agent
<b>Form</b>	Liquid
<b>Colour</b>	Milky White
<b>Shelf Life</b>	9 Months from date of Manufacture
<b>Delivery</b>	30 Kgs, 5 Kg
<b>Storage</b>	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
<b>Disposal</b>	Empty packs completely and dispose off carefully to protect our Environment

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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