

# MIXBUILD NF 3100

Epoxy multi-repair / adhesive system, Hi-strength and non-slump



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## Introduction

**Mixbuild NF3100** is an epoxy resin adhesive and bedding compound that is designed for use where non-slump characteristics are required. The system consistency makes the product Ideal for minor concrete repairs and re-profiling. It is thixotropic but easily workable compound that cures to give high mechanical properties and offers resistance to oil, grease, petroleum, salts, many acids and alkalis and most commonly met corrosive media. Mixbuild NF 3100 is a two-pack product containing fine aggregates that will not shrink on curing; the product is rapid curing, and does not shrink on curing.

## Appropriation

Mixbuild NF3100 may be used for a variety of bonding, repairing, bedding, gap filling and overhead applications, typically:

- Repairing honeycombed concrete
- Cracked plaster surface, mapping
- Bedding bridge bearing
- Fixing of brick slips
- Gap filling adhesive
- Filling bolt pockets
- Bedding and grouting tiles
- Repairs & grouting to GRC panels
- Overhead repairs

## Characteristics

- High strength
- Versatile
- Tenacious bond
- Non slump, rapid cure
- Non shrink
- Minimal waste
- Excellent chemical resistance
- High mechanical strength
- High impact resistance
- Strong adhesion



## Technical Data and Properties

Standard Confirms to	ASTM C881: Type 1, Grade 3 Class B&C, BS6319- Part 4, BS5080- Part 1
Color and Appearance	Off White(Part A) & Cement Grey (Part B)
Density @ 30°C	1900 kg/m <sup>3</sup>
Compressive Strength	70N/mm <sup>2</sup>
Tensile Strength	>17N/mm <sup>2</sup>
Flexural Strength	>35N/mm <sup>2</sup>
Bond Strength	Greater than Concrete
Pot Life @ 30°C	40min
Full Cure	7Days @ 30°C
Flash Point	200°C

## Product Management

Surface preparation: Make sure surfaces are clean, dry and free from dust, dirt, oil, grease, laitance etc.

Mixing: Mixbuild NF3100 may be easily mixed by trowel although for multiple packs a slow speed drill and mixing paddle can be used. For less than full units take three parts of the base (part A) with two parts of the reactor (part B) and mix thoroughly in a pliable polyethylene beaker or similar

Part mixing of units is only recommended for non-adhesive applications. The technical properties shown above will only be achieved with the exact mixing ratio, as supplied. To avoid waste, only mix sufficient material for the work in hand

Application: Mixbuild NF3100 by knife or trowel will aid application. Where deep recesses are to be filled, apply Mixbuild NF3100 in layers of 25 mm to 40 mm to required depth



MANUFACTURED BY  
PYCHEM CO. L.L.C.  
P.O. Box : 7496, T : +971 6 7672151, F : +971 6 7672161, U.A.Q - U.A.E.  
E: INFO@PYCHEM-CC.COM , PYCHEMCO@GMAIL.COM WWW.PYCHEM-CC.COM

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Coverage: A 3kg unit will cover an area of 1.6m<sup>2</sup> at 1mm thickness. Consumption will vary according to the texture and profile of the surface being repaired on adhered to

Cleaning: Clean tools and equipment immediately after use with a suitable solvent. Once cured Mix build NF3100 can only be removed by mechanical methods

## Packing & Storage

Mixbuild NF3100 is available in 3 kg kit (two parts). For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Mixbuild NF3100 should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

## Health & Safety

Mixbuild NF3100 contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each PyChem product

Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-on application. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity and porosity of substrate may impinge on values



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