

HYCHEM PF3

Epoxy adhesive and grout

DATA SHEET



HYCHEM

INFRASTRUCTURE SOLUTIONS

Hychem PF3 is a general purpose, 1:1 epoxy adhesive with high flexural strength suitable for bonding, grouting and patching most rigid and semi rigid building materials. Hychem PF3 is available in bulk and as convenient ratio packs for easy application.

Hychem PF3 when blended with a quartz aggregate, is an ideal epoxy repair compound for the repair of shallow spalling concrete caused by reinforcement corrosion. The product is extremely user friendly, as the finished repair can be tooled with water prior to setting.

TYPICAL APPLICATIONS

- **Natural stone:**
 - Bonding and grouting fixing pins
 - Patching broken sections of natural stone furniture
- **Concrete:**
 - Resurfacing damaged and bony sections in pits and tanks
 - Splicing precast sections, e.g. stormwater pipes
 - Manufacture of precast concrete parts, e.g. farm troughs
 - Grouting bolts, starter bars and cable ends etc.
- **Fibreglass:**
 - Bonding of tiles to pool copings, shower basins etc.
- **Steel, copper:**
 - Bonding wear resistant tiles, flashings, plumbing fixtures
- **Brick, masonry:**
 - Restoring broken sections, acid resistant mortar
- **Crack injection:**
 - Bonding injection nipples
- **Grouting:**
 - Can be used to set machinery base plates and other epoxy grout applications

FEATURES AND BENEFITS

- Fast curing – can be sanded after 30 minutes
- 1:1 mix ratio
- Superior strength to concrete
- Very good chemical resistance
- Non-sag paste
- Versatile

TECHNICAL PROPERTIES @ 25 °C

Mix Ratio	1:1 by weight/volume
Appearance	Non sag paste, white resin and black hardener, concrete grey mixed
Compressive strength	60-65 MPa
Flexural strength	20-30 MPa
Pot life	1 hour
Cure time	24 hours

PACKAGING

2 Litre and 20 Litre

SAFETY PRECAUTIONS

Wear appropriate personal protection equipment. Gloves, eye protection, mask and overalls should be used during mixing and application.

SHELF LIFE

12 months from date of manufacture, stored under shelter at 25°C in the original un-opened container.

CHEMICAL RESISTANCE

Different epoxy products vary in their resistance to chemicals. Always ensure that the correct product is chosen for the service environment to be encountered.

If in doubt contact your Hychem representative or the Hychem technical department for advice. Chemical spillage of acids and sanitizing agents may attack the pigments used in the coating and result in discolouration.

WARNING - ENVIRONMENTAL CONDITIONS

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all epoxy products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected potentially resulting in poor gloss retention, discolouration over time, poor overcoatability and intercoat adhesion. Quite often these conditions will result in the formation of a white film over the surface often evident after contact with water. This chemical reaction with the atmosphere is commonly referred to as "amine bloom" or "amine blush".

If this occurs then the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases partial or complete re-priming may be necessary.

Attention also needs to be paid to the substrate temperature which should be at least 3°C and preferably 5°C above the dew point during the curing phase.

Industry standards recommend the accurate recording of times and dates, batch numbers, consumption rates and environmental conditions including substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately.

If in doubt consult the Hychem technical department for advice.

NOTE: Customer responsibility

The technical information and application advice given here is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation.

Field support, where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

If unsure contact Hychem for further technical advice before proceeding.