

MasterStrength 1475

Epoxy paste mortar and adhesive for high build application

Material Description

MasterStrength 1475 is a high-performance, two-component, solvent-free epoxy paste resin specifically designed for bonding, grouting and general repair of concrete. **MasterStrength 1475** will bond well to prepared steel, concrete and other compatible surface.

Areas of Application

- Structural bonding of precast elements.
- Fixing injection ports for crack injection.
- Bonding a wide variety of building and construction materials.
- As a repair mortar, may be mixed with kiln dried sands for deep repairs (up to 40mm).

Characteristics and Benefits

- Multi-purpose - excellent adhesion to concrete steel and damp substrates.
- Gap filling qualities.
- Non-sag on vertical and overhead surfaces.
- Excellent chemical resistance - suitable for aggressive environments, including wastewater, industrial, and marine applications.
- Simple on-site QA - components are 1 : 1 part ratios and also pre-proportioned to aid mixing.

Properties

Mixed resin and hardener technical characteristics	
Compressive Strength	95 MPa
Flexural Strength	33 MPa
Tensile Strength	10 MPa @ 14 days
Bond strength	> 2.5 MPa (concrete failure)
Lap Shear Strength	20 MPa
T-Peel Strength	2.7N/mm
Modulus of Elasticity	3.2 GPa

Application Properties	Results
Mixing Ratio	1 part part A : 1 part part B
Thickness range	Max. 40mm
Pot life @ 25°C	2hrs
Full Cure @ 25°C	7 days

Application

For detailed application methodology, please refer to "Epoxy Concrete repair, MasterStrength systems" application guide.

Surface Preparation

Surfaces must be free of dirt, dust, paint, grease, oil, rust or other contaminants. Surfaces may be dry or damp. Mechanical methods are preferred for surface preparation of metals, concrete, stone and rigid plastics. Where this is not possible consult Master Builders Solutions regarding alternative methods such as waterblasting..

Mixing

MasterStrength 1475 is supplied in precisely proportioned packaging ready for mixing. It is critical to the successful use of this product that part portions are not mixed. Add the two components together being sure to add the complete proportion of Part B to Part A. Mix together using a slow speed mixer (400rpm) for at least 3 minutes or until a uniform mixture is achieved.

Application

MasterStrength 1475 may be trowelled onto prepared surfaces. Trowel adequate amounts of **MasterStrength 1475** onto each surface for bonding to create full contact. Bring both surfaces into contact and apply positive pressure until full cure is reached. Where multiple layers of **MasterStrength 1475** are being applied to a single surface, roughen between each layer and wait until initial set or all latent heat has dissipated prior to application of next layer.

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Estimating Data

One litre of mixed **MasterStrength 1475** can cover 1m² at 1mm thickness.

4L mixed kit of MasterStrength 1475 coverage and yield	
4 m ² at 1.0mm thickness	1 m ² at 4.0mm thickness

Packaging

MasterStrength 1475 is available in 4 litre kits:

Part A – 2 litres

Part B – 2 litres

Storage & Shelf Life

Store in cool and dry warehouse conditions. Shelf life in these conditions is 12 months in unopened original bags.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Specification Clause

The structural epoxy repair mortar shall be a high performance two component solvent free epoxy paste which requires only mixing on site at ratios specified by the manufacturer and shall meet the performance outlined in the “Mixed resin and hardener technical characteristics” table of the property section. For thickness range below, the epoxy thixotropic pastes supplied by Master Builders Solutions or equivalent shall be accepted:

up to 5mm: **MasterStrength 1444**

up to 25mm: **MasterStrength 1446**

up to 40mm: **MasterStrength 1475**

Where thicker applications, consult Master Builders Solutions regarding alternative methods such as epoxy flowable mortars and grouts such as **MasterStrength 2525** with MasterCoat FIL (added filler) or **MasterFlux ER** range.

Disclaimer

MasterStrength-1475-ANZ-V2-1125

STATEMENT OF RESPONSIBILITY

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NOTE

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