

TRU LEVEL RAPID PATCH

Rapid Hardening and Drying High Strength Repair Mortar

DESCRIPTION

Tru Level Rapid Patch is a polymer modified, rapid hardening and drying, high early strength, rapid drying, slump-free and shrinkage compensated repair mortar for vertical and horizontal flooring. Tru Level Rapid Patch may be used for internal and external applications.

Mixed mortar sets after 15-20 minutes and can be trafficked after 45 minutes.

RECOMMENDED USES

- As a heavy duty floor repair compound which provides a very smooth surface allowing the smooth installation of carpet, ceramic tiles, sheet rubber, sheet vinyl tiles
- Can be used in residential commercial and any application where a rapid hardening internal and external floor repair of high strength is required
- Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquetry etc.
- Fast repairs of uneven concrete floors
- Residential, commercial and medium industrial application
- Application thickness up to 100mm in a single application
- New construction and refurbishment projects. Building up ramp areas prior to application of floor coverings
- Fills holes in various substrates such as concrete sub bases, screeds and renders
- Ideal for building ramps or falls to floors

FEATURES AND BENEFITS

- Very fast application
- Rapid hardening and drying
- Can be applied directly onto prepared concrete surfaces

- Eliminates the need for sand and cement screeds
- Dimensionally stable- will not crack
- Excellent adhesion to prepared substrates
- One pack product eliminating on-site batching and ensures consistency of mixed product
- Produces a very smooth surface essential for laying thin sheet coverings such as vinyl etc.
- Australian Made
- Receives after trade finishes in 45 minutes
- Rapid repair of internal and external sub floors and concrete stairs and ramps
- Reduces down time

APPLICATION INSTRUCTIONS

Substrate and Surface Preparation-

Ensure substrate is clean and free from oil, grease, sealers, curing compounds, polymer coatings, dust or any other contaminant or coating that may affect the bonding of Tru Level Rapid Patch onto the substrate.

All foreign materials, e.g. bitumen, adhesive or laitence must be removed by mechanical means such as scabbling, capture shot blasting or grinding. The substrate does not usually require priming unless excessively dry or boney.

Prior to carrying out application the substrate must be primed:

For Porous Substrate: must be primed with Level Hard Primer.

For Non Porous: must be primed with Epoxy Primer.

New concrete floors must be at least 14 days old prior to application of Tru Level Rapid Patch.

PRIMING-

Porous Floors:

Prime the clean dust free concrete substrate with Level Hard Primer using a brush, broom or roller. Allow primer to reach a tacky consistency before applying Tru Level Rapid Patch. Approximate drying time of the primer is 40-60 minutes at 50% RH and 25°C.

Extremely porous substrates such as weather damaged slabs, aerated lightweight concrete etc. may require a second coat of primer to avoid pinholes or bubbles in the leveling compound. If a second coat is required allow the first coat to dry prior to application of consecutive coat. Apply primer at 8-10 M²/litre. Brush out ponded primer to allow for even and complete drying of the Level Hard Primer prior to the application of Tru Level Rapid Patch.

DO NOT APPLY TO UNPRIMED SURFACE.

Primed areas should receive the Tru Level Rapid Patch as soon as possible after the primer becomes tacky so to avoid dust and surface contamination effecting adhesion of the Tru Level Rapid Patch to the primer.

For concrete substrates that contain greater than 5.5% moisture content or are subject to greater than 70% relative humidity, rising damp or moisture it is imperative that a moisture barrier is required. It is recommended that a Primeseal MC be used. Primeseal MC should be used as a vapour barrier prior to the application of Tru Level Rapid Patch applied in accordance with Primeseal MC Technical Data Sheet. Floors treated with Primeseal MC should be treated as a non-porous surface and primed with Epoxy Prime.

Non Porous Floors:

For application of Tru Level Rapid Patch to non-porous substrates use Epoxy Prime. Contact your nearest Afttek office for Technical Data Sheet.

Mixing-

Tru Level Rapid Patch requires 3.8 - 4.2 litres of clean water per 20kg bag and is best mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill at approx. 600 r.p.m. Add pre-measured water to a clean mixing bucket. Gradually add Tru Level Rapid Patch into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bag have been added to the water, mix for a further two (2) minutes to produce a smooth homogenous consistency.

DO NOT MIX BY HAND AND DO NOT ADD EXCESS WATER.

Discard any Tru Level Rapid Patch that has hardened or stiffened in the mixing bucket. Further addition of water will NOT reconstitute a useable mixture. For smaller quantities, mix the ratio of 3 part Tru Level Rapid Patch powder to 1 part clean water by volume.

Placing-

It should be noted that Tru Level Rapid Patch has a very short working time. It is advisable to mix up quantities that will be used within the working time and it is recommended to work in small areas.

For Filling-

When filling holes and cracks, apply the Tru Level Rapid Patch into the hole well. Ensure the Tru Level Rapid Patch comes into total contact with the substrate by applying firm pressure to the trowel. It is recommended to leave the repair proud of the hole or crack for about 10 minutes, then trim off the excess and finish off with a damp steel trowel. As soon as the Tru Level Rapid Patch has hardened, the area can be leveled over with Tru Level Econo Pro.

Curing-

No curing is required. The addition of water to Tru Level Rapid Patch after it has started to stiffen is not recommended. Any Tru Level Rapid Patch that has not been placed whilst still pliable should be discarded if not able to be used within 10 minutes as hardening will occur.

COVERAGE-

A 20kg bag of Tru Level Rapid Patch mixed with 4.2 litres of clean water will yield approx. 13 litres. This quantity will cover approx. 13m² at 1mm thick of Tru Level Rapid Patch can be installed to any thickness in a single application. Refer to Aftek for additional information on application.

Thickness	Area m ² per 20kg bag
5mm	2.6
10mm	1.3
20mm	0.650
25mm	0.52
40mm	0.33
50mm	0.26
100mm	0.130
* Yield 80 bags per cubic metre.	

PRECAUTIONS

- Concrete substrates must be at least 14 days old
- Do not over water
- Do not hand mix
- Can be walked on after 45-60 minutes
- Most floor coverings can be laid after 1 hour
- Check moisture content in large/ thick applications prior to laying floor coverings
- Protect from direct sunlight or drying winds during cure
- Do not use in areas subject to hydrostatic head of pressure without use of moisture barrier, Primeseal MC
- Do not use in areas subject to constant water immersion

PROPERTIES

COMPRESSIVE STRENGTH	
Age	Compressive Strength
1 day	25 MPa
3 days	32 MPa
28 days	45 MPa

FLEXURAL STRENGTH	
Age	Flexural Strength
1 day	5.0 MPa
3 days	8.0 MPa
28 days	10 MPa

SETTING TIMES	
Initial Set	20°C/ 25-30 mins Mortar beginning to firm
	30°C/ 20-25 mins Mortar beginning to firm
Final Set	20°C/ 40-45 mins Hardened unworkable
	30°C/ 30-35 mins Hardened unworkable
* Vicat setting times at 20°C	

WORKING TIMES	
Temperature	Times (minutes)
10°C	30-35 minutes
20°C	20-25 minutes (begins to firm at 20-25 minutes)
30°C	15-20 minutes (begins to firm at 20-25 minutes)

FRESH WET DENSITY

1850 kg/m³ approx. (tested in accordance to AS 1012.5)

TRAFFIC TIME 20°C	
Foot traffic	45 minutes
Vehicle traffic	90 minutes
Time to cover with floor covering (overlay)	< 10mm thick 45 minutes > 10mm thick 1 hour

APPLICATION TEMPERATURE	
Minimum	5°C
Maximum	30°C

PACKAGING

Tru Level Rapid Patch is available in a 20kg bag
Item no. 430084

STORAGE-SHELF LIFE

Tru Level Rapid Patch has a shelf life of approx. 12 months if kept in a dry environment away from moisture. For further information consult Aftek Technical Data Sheet

CLEAN UP

Tru Level Rapid Patch should be removed from tools and equipment with clean water immediately after use.

SAFETY PRECAUTIONS

Refer to MSDS for more details on this product.

FIRE

This product is non-flammable and poses no fire risk.

HEALTH AND SAFETY

Avoid contact with skin. Protective gloves and clothing are recommended when mixing or using this product. Please refer to full MSDS (material safety data sheet) for this product, which is available from Aftek upon request or through www.aftek.com.au

TECHNICAL SUPPORT

Aftek manufactures a comprehensive range of high quality and performance construction products. In addition, ITLS offers technical support and on-site advice to specifiers, end users and contractors.

Please contact your ITLS-Aftek sales representative or Head Office for this service.

The information and any recommendations relating to the application and end-use of all ITLS products are provided in good faith based on ITLS's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by ITLS. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions. PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.