

Data sheet C757

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PML Patch Pack - Rapid Setting

Introduction

PML Patch Pack is a trowel-applied three-part epoxy resin mortar consisting of Base, Hardener and specially graded Filler.

PML Patch Pack is specifically designed for rapid repairs to floors, roads, expansion joints, etc. PML Patch Pack bonds tenaciously to most building surfaces and, when cured, is completely impervious and resistant to water, oil, grease and a wide range of chemicals.

Advantages

- ' Fast setting - rapid return to service
- ' Pre-packed units - ready to use
- ' Handy size - easily stored
- ' No primer required
- ' Coloured - concrete grey
- ' Can be applied down to a feather edge
- ' Can be applied under cold, damp conditions
- ' Non-shrink
- ' Resistant to oil, grease and a wide range of chemicals
- ' Impervious
- ' Non-dusting
- ' Impact and abrasion resistant - withstands heavy trucking

Typical Applications

Floor patching
Repairing damaged concrete
Correcting floor levels
Repairing worn stair treads
Repairing damaged and worn expansion joints
Concrete road repairs
Chemically resistant mortar for concrete protection
Repairs to structural concrete

Method of Use

Storage

All materials must be stored prior to use under cover, preferably in a dry heated store. Materials stored at low temperatures (below 10°C) become more viscous and thus difficult to mix and apply. Do not store below 5°C.

If crystals are observed due to low temperature storage, contact APML Technical Sales Department.

Surface Preparation

All surfaces should be clean, dry and free from loose material, laitance etc. The best results are obtained by exposing the aggregate, using a scabber or angle grinder.

All traces of oil, grease or other contaminants must be removed.

Alternatively, the surface may be prepared by applying a proprietary acid etch eg. PML Etch (Data Sheet No. 608) by brush, leaving 10 to 15 minutes until effervescence ceases and thoroughly washing with clean water to remove all traces of acid.

After finally washing down, the surface must be allowed to dry thoroughly before applying PML Patch Pack. The use of hot air blowers will be beneficial.

Caution: where silicate or silicofluoride sealers or any type of surface coating have been used it is essential that these are first removed by grit-blasting, mechanical grinding or planing before applying PML Patch Pack.

Certain types of coating may be difficult to remove by grinding and in such cases the APML Technical Sales Department should be consulted for advice.

Mixing

The materials should be at a minimum of 15°C before mixing. This will make mixing and application easier and will ensure that the mix is sufficiently 'wet' to self prime.

The pack can be mixed by hand but mechanical mixing with a slow speed drill and paddle is preferred.

Hand Mixing:

Mix together the entire contents of the Base and Hardener containers using a large shallow mixing vessel. A small pointing trowel with the end cut or ground off makes a very suitable mixing implement. Add the Filler slowly, stirring continuously until uniformly dispersed. During the latter stages of mixing, it may be found advantageous to empty the contents onto a spot board and complete the mixing on the board.

Mechanical Mixing:

Empty the Base and Hardener containers into a mixing vessel ensuring they are well drained. Start the mixer and allow the materials to mix thoroughly. Slowly add the Filler whilst continuing to mix. Mix for several minutes after all the Filler has been added to ensure a completely uniform material.

Application of PML Patch Pack

Apply by trowel to prepared surfaces. Finish with a steel float. It may be found advantageous on larger areas to screed off level with a screeding board prior to finishing with a float.

Cleaning

All Tools and mixing vessels must be cleaned immediately after use with PML Resin Cleaner (Data Sheet No. 610), acetone, cellulose thinners or similar solvents.

Technical Specification
General data for guidance purposes only
(Approximate figures)

Packing	9 kg pre-weighed packs
Volume of pack	4.4 litres
Coverage	0.88m ² @ 5mm thick
Pot life at 15°C	Approx. 20 mins from start of mixing
Setting time at 15°C (substrate temperature)	Light Traffic 4 hours Heavy Traffic 5 hours
Maximum Strength	78 N/mm ² after 24 hours at 15°C
Shelf life	12 months minimum
Storage conditions	Sealed containers under cover Minimum temperature 5°C Maximum temperature 50°C

Health and Safety

This product contains substances that are classified as hazardous according to the Chemicals (Hazard Information and Packaging for supply) Regulations, 1994 (as ammended). The product is labelled in accordance with these regulations and further information regarding health hazards, handling, storage etc. is detailed in the Material Safety Data Sheet(s). In addition to considering the advice given by APML, all users must conform to the Control of Substances Hazardous to Health Regulations, 1994 (as ammended).

Chemical Resistance

PML Patch Pack is resistant to the effects of a wide range of chemicals. However, it is important that advice is sought from the APML Technical Sales Department before the product is specified.

All coverages and thicknesses quoted are nominal and will be affected by substrate profile and porosity.

The information in this Data Sheet, given in good faith, is based on results gained from experience and tests. Since application and use are beyond our control, no condition or warranty is given covering the results from the use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept any responsibility for any loss or damage, howsoever caused arising from the said use.