



HARDFAST

DESCRIPTION:

Hardfast is part of DGL Bondlast's hand screed range which gives a ready-to-use cementitious gypsum plaster simply by mixing with water or Durabond FLC Emulsion. It exhibits very rapid hardening and drying properties. Hardfast, when mixed correctly, will accept most latex and acrylic flooring adhesives. Sealing is essential over any spread of Hardfast to ensure subsequent adhesion.

TYPICAL FEATURES | BENEFITS:

- Rapid set.
- Excellent adhesion to on grade concrete, timber and particle board floors.

PERFORMANCE DATA:

Element	Value		
Application Temperature:	+10°C - +25°C <i>Where temperatures less than 10°C or greater than 25°C are encountered, contact DGL Bondlast technical staff for specific advice.</i>		
Pot-Life:	+20°C ~ 65%RH	Approximately 5 minutes	
Can be walked on:	+20°C ~ 65%RH	Approximately 20 minutes	
May be Covered after:	+20°C ~ 65%RH	Approximately 20 minutes	
Adhesion Properties to correctly prepared surface:	Excellent		
Binder:	Combined gypsum and cementitious plaster		
Compressive Strength:	+20°C ~ 65%RH	28 days	30 Mpa
Coverage:	1 litre of mixed compound will cover 0.3m2 @ 3mm thick.		
Recommended Thickness:	0 – 3mm approx. <i>Depths greater than this should only be used in cracks or holes</i>		
Appearance:	White		
Clean Up:	Wash hands with warm soapy water after any skin contact. Hot soapy water for cleaning tools is better than solvents.		
Dangerous Goods Class:	Refer: SDS		
Packaging:	Hardfast Powder:	10kg Plastic lined paper bags. This product must be stored in a dry area, off the floor on a timber pallet, or timber dunnage and it must be protected from the weather and from mechanical damage. <i>Rotate the stock to ensure that the oldest material is used first.</i>	
Shelf life:	12 months from date of manufacture unopened and stored in dry internal conditions at 5-30°C. <i>After this period consult with DGL Bondlast Construction Products.</i>		

RECOMMENDED USES:

- Patching of cracks and areas up to 0.5m2
- Areas of foot traffic only.

NOT RECOMMENDED:

- Application below +10°C air temperature.
- Areas larger than 0.5m2
- Application to incorrectly prepared surfaces.
- Areas exposed to water damage

Note

For large areas use: Bondlast Rapid Patch 40.

SUBSTRATE PREPARATION:

The substrate must be sound, smooth, dry, and clean.	
Remove all dust, dirt, oil, scale, laitance, paint or any other contaminates that may inhibit a good bond.	
Cracks should be excavated with any loose or crumbly material being removed.	
Concrete floors must be dry in accordance with NZS/AS1884 – 2013 (70% RH maximum).	
Concrete:	Diamond grind the concrete surface as necessary. <i>This is normally a good cautionary practice</i>
Fibre Cement, Fibre-board and Particle Board:	The surface must be dry, clean, and sanded lightly.

PRIMING | SEALING:

Priming Surfaces will improve working time and handling.	
The surface to be bonded must be prepared, clean and sound.	
Concrete , Fibre-Cement, Fibre-board and Particle Board:	Priming surfaces will improve adhesion, working time and handling. This ensures the Hardfast does not dry too quickly Very absorbent concrete may require a second coat of Universal Primer.
Wet or Damp Concrete Floors:	If in doubt about potential wet or damp floors, seal with Aquakem (Aquaguard 101) before proceeding. <i>Refer: DGL Bondlast Construction Products Aquakem technical literature.</i> Note* <i>The requirement of the Aquakem in these situations will increase the installation time of the project.</i>

MIXING RATIOS:

Option 1	
Hardfast powder is mixed with Durabond FLC emulsion in the following ratio:	
3-1/3 parts powder to 1 part latex by volume <i>e.g. 330mls powder to 100mls Durabond FLC emulsion.</i>	
Mix the powder and latex to a smooth consistency by hand.	
Slightly more latex may be added to obtain a more fluid mix.	
Mix only sufficient material which can be used in 5 minutes, as the mix will rapidly harden after this period.	
This option develops a stronger bond, and adhesives will bond to it more effectively.	

Option 2	
Hardfast powder is mixed with water: <i>Hardfast mixed with water only, will have lesser adhesion than Hardfast mixed with FLC emulsion.</i>	
Mix Hardfast with water to a smooth consistency.	
Mix the powder and water to a smooth consistency by hand.	
Mix only sufficient material which can be used in 5 minutes, as the mix will rapidly harden after this period.	
Higher temperatures reduce, and lower temperatures increase the working time	
<i>Water mixed Hardfast must be subsequently sealed with Universal Primer prior to adhesive application.</i>	

APPLICATION METHOD:

Work the Hardfast into the repair area, forcing the material into crack to obtain a good bond.
Use a steel trowel or float to achieve the required finish.
Lightly sand any ridges.
Sealing should now take place using Universal Primer (Diluted 1 part Universal Primer – 2 parts water) One light coat is sufficient. Allow to dry.

CAUTION:

Hardfast is to be mixed within the specified parameters of this document. Only these will produce a hard, non-softening product. Adding more water or Durabond FLC emulsion (**with the aim of making the product “easier to use”**) will not work and will only result in making the product softer.
Only the stated mix ratios will work and exhibit the stated performance data.

- HEALTH & SAFETY:** *Refer: safety data sheets (SDS).*
- Wear gloves and mask.
 - Wash hands with warm, soapy water after any skin contact.

FLOOR LEVELLING COMPOUND RANGE:

Patch Repairs

Product	Application Thickness	Mix Additive	Application Area	Use
Bondlast Rapid Patch 40	0 - 100mm in a single application	Water	Interior	Rapid Set
Hardfast (<i>White Patch</i>)	0 - 20mm in a single application	Water	Interior	Divots Isolated patching only

Bulk Fill

Screed 20 +	10 - 100mm in single application	Water	Interior	Heavy Duty Bulk Fills - Ramps
Bondlast Rapid Screed	5 - 200mm in a single application	Water	Interior / Exterior	Rapid Set Shower Falls

Two-Part Screed

Durabond Superfine	0 - 5mm in a single application	Latex Emulsion	Interior	General Purpose - Fine Finish
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Self-Levelling

Bondlast Super Level 30	0 - 12mm in single application <i>Self-Smoothing at >3mm</i>	Water	Interior	Self-Levelling Installations
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Fine Feather Finish

Bondlast Super Feather Patch	0 - 3mm in single application <i>Very fine finishing</i>	Water	Interior	Fine Smoothing of floors
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