

INFORMATION BULLETIN & MEDIA RELEASE

Stick almost anything to anything! A multi-purpose glue that sticks exceptionally well, is available from West Heidelberg, Melbourne based Ability Building Chemicals Co.

Ability have invented and now make available for sale an easy to prepare and use, water wash-up, high bond glue that sticks to just about all surfaces you may think of so well, you'd be forgiven for thinking they'd been welded together!

This superb glue is called:



abil-weld is an experimental product available commercially. A free no charge 1kg sample of the product will be made available for any potential user or specifier to test and evaluate. Thus they can ensure that before actual use it is completely suitable for the intended purpose. Simply phone the people at Ability on (03) 9457 6488, ask for further printed information, and a *free* sample.

abil-weld is supplied as a water reactive white powder. When mixed into the recommended proportion of water a premium 'gluey' paste is formed.

The H₂O molecules in the water chemically reacts with the powder and cross link with it to form one of the strongest glues available.

The product consists of 100% glue and is sold by weight. As far as we are aware it's price is about half the retail/trade price of most high performance, multi-purpose waterproof glues.

To prepare a remarkably good glue, bonding agent or a patching/repair mortar having high performance, simply add 3 parts **abil-weld** powder to 1 part clean, drinkable water by volume and mix *thoroughly* (for about 4-5 minutes). Then allow the mixture to activate for another three to five minutes, remix *without* adding more water and use.

abil-weld glue is easy and safe to mix and convenient to use. Only the amount of glue required for a particular job need be mixed thus avoiding waste.

The product sets fast. For example at an average temperature of 23°C **abil-weld** sets in about 1_ hours and then starts to harden rapidly.

It's a versatile – almost universal, strong, safe for the user and safe for the environment adhesive that is completely free of noxious solvent fumes, VOCs (volatile organic compounds) and it does not emit climate warming greenhouse gasses.

When fully hardened **abil-weld** is *waterproof*, very hard yet slightly *flexible*, *fire retardant* and also features *high resistance* to cracking. The bond is watertight and the bonded materials if suitable may be immersed permanently in water, chlorinated water - even seawater.

Hardened **abil-weld** is not only resistant to water, acids, alkalies, many other chemicals, flame spread and high temperatures [180°C], it is particularly resistant to chloride and sulphate aqueous solutions which cause rusting of iron and steel including the reinforcing steel in concrete.

abil-weld glue may be through coloured using suitable colouring pigment powders which are also available from Ability. These colourants are called '**abilox**[®]' or '**duro**[®]', or it may be painted over with paint when hardened.

The product may be evaluated for use to adhere a variety of materials including concrete-to-concrete, stone and ceramics to concrete and mortar, wood to metals, glass to ceramics, ceramic tiles to stone, concrete, mortar and brick or block masonry, aluminium to plastic/resin bound composite materials etc and may in many cases eliminate the need for mechanical fastening.

abil-weld is suitable for ecologically sustainable development briefs as its composition is essentially of mineral origin, safe for the environment, recyclable, and therefore is not depleting the earth's fossil fuels. Also, because it contains Ability's strong, hollow, lightweight ceramic microspheres and macrospheres called 'E-SPHERES[®]', **abil-weld** is highly insulative – both thermally and acoustically.

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