

# PRODUCT DATA SHEET

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**PRODUCT:**                    **SEALHARD MULTICURE AC 90**  
**WATERBASED ACRYLIC RESIN CURING MEMBRANE**

**DESCRIPTION:**            **SEALHARD MULTICURE AC90- WATERBASED CURING MEMBRANE** is a Class D, Type 1 curing compound for use on new concrete that facilitates maximum moisture retention through 28 days curing period to maximise concrete strength & durability.  
**SEALHARD MULTICURE AC90**, cures, seals and hardens the surface of new concrete, providing increased strength and durability and improved resistance to chemicals and surface dusting, when applied by the correct method and at the recommended application rate. The dried film, which is not particularly obvious and has minimal darkening on exposure to sunlight.  
**SEALHARD MULTICURE AC90** is based on an acrylic resin combined with other additives.

**USE:**                                Mainly used on freshly laid concrete floors, carpark, warehouses, bridge ramparts etc. Also used for curing vertical concrete areas immediately after the stripping of forms to assist strength development, improve chemical resistance, etc

**ADVANTAGES OF USE:**

- **Environmentally acceptable.**
- **low Solvent - water based (not classed as Hazardous or Dangerous)**
- **Low VOC**
- **Complies with GREEN STAR- OFFICE DESIGN V3 IEQ-13 (<200g/L TVOC)**
- **Low odour.**
- **No ventilation requirement.**
- **No stringent safety requirements.**
- **Fast dry**
- **Efficient curing of the concrete, assists the Development of strength, abrasion resistance and durability.**
- **Reduces the likelihood of cracking or dusting at the surface.**
- **Easy to use, eliminates messy water curing or polythene film.**

**STANDARDS COMPLIANCE**            **SEALHARD MULTICURE AC90** conforms to AS3799 1998.  
Test certificates are available on request.

**DESIGN & SPECIFICATION DETAIL**            The coating should be applied in a single coat to achieve the required dry film thickness sufficient to achieve the correct curing properties, **SEALHARD MULTICURE AC90** must be applied on to the substrate at the coverage rates recommended.

## **CONCRETE CURING COMPOUND**

All designated areas are to have a liquid curing compound applied to the freshly finished concrete. The curing compound will be based on an acrylic resin, comply with AS3799. Such a material is **SEALHARD MULTICURE AC90** as supplied by SEALHARD. The curing compound is to be applied in accordance with the manufacturers application instructions.  
**SEALHARD MULTICURE AC90** should be evenly sprayed over the freshly laid concrete as soon as possible after final trowelling. Ideally **SEALHARD MULTICURE AC90** should be applied as soon as the surface bleed water has evaporated.

**LIMITATIONS:**                    Certain adhesives for vinyl tiles, or other types of resilient flooring, and paints of an approved grade may be applied to concrete coated with **SEALHARD MULTICURE AC90**. It is important however that the concrete should be thoroughly cured prior to such application, and that a test area has been completed for approval. Cement based renders and toppings should not be applied over **SEALHARD MULTICURE AC90**. First remove the **SEALHARD MULTICURE AC90** by sand blasting or scabbling to provide a mechanical key. The life of **SEALHARD MULTICURE AC90** will depend on traffic conditions to which it has been subjected; therefore apply reviving coats as required. The bond of **SEALHARD MULTICURE AC90** is likely to fail if the product is applied to concrete or masonry substrates subject to back water pressure, and/or where extraneous salt particles are carried from the substrate to the interface by vapour or condensation.  
\* Chemicals to which **SEALHARD MULTICURE AC90** is not resistant include oxidising agents,

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such as sodium hypochlorite, bromine water and sulphur dioxide. **SEALHARD MULTICURE AC90** is also not resistant to concentrated acetic acid, concentrated phosphoric acid, concentrated nitric acid, chromic acid, concentrated ammonia, animal fats and oils, synthetic oils such as brake fluid and some transmission fluids, vegetable oils and higher fatty acids such as oleic acid plus the following solvent types: aromatic hydrocarbons, esters, ketones and chlorinated solvents. A clear appearance with slight yellow cast is obtained. **SEALHARD MULTICURE AC90** may yellow when subject to ultra-violet radiation from sunlight.

**IN USE:**

Mix prior to use. Ensure **SEALHARD MULTICURE AC90** is homogeneous. **SEALHARD MULTICURE AC90** contains no fugitive dye so care should be exercised to ensure a uniform application is achieved. Calculate area to be treated, pre-measure the volume of **SEALHARD MULTICURE AC90**. Apply one full coat forming a continuous film at a rate of 5m<sup>2</sup>/L. wet on wet, as required to obtain the necessary application rate or use the volume. Ensure there are no misses. Low pressure spray (preferred) or soft 10-15mm nap roller.

**APPLICATION EQUIPMENT**

**ALLOWABLE THINNING**

Nil – use as supplied

**COVERAGE**

5m<sup>2</sup>/L ( 0.2litres/m<sup>2</sup> ) using a spray applicator – do not brush.

**CLEAN UP**

Water when wet. Xylene, or EASI-ORANGE (allows re-emulsification with water) when dry.

**DRYING TIME**

Approximately 1<sup>1/2</sup>-2hours at 25°C. After this time the **SEALHARD MULTICURE AC90** will be **shower resistant**, and will resist re-emulsification and consequential removal. This feature will help diminish the potential for wash away by rain within 8 hours of application

**PROPERTIES**

<b>COLOUR</b>	<b>MILKY FLUID</b>
<b>VISCOSITY</b>	<b>&gt;0.050Pa. s</b>
<b>SPECIFIC GRAVITY</b>	<b>0.95-1.0</b>
<b>FLASH POINT</b>	<b>NOT APPLICABLE</b>

**STORAGE:**

Store in cool, dry conditions, away from sources of heat and naked flames, in original, unopened packs. If stored at high temperatures, low temperatures (below 5°C and/or high humidity conditions the shelf life may be reduced. Emulsions can ‘break’ or separate at extremes of temperature, reducing the efficacy of the resultant coating.

**SHELF-LIFE**

**SEALHARD MULTICURE AC90** has a shelf life of approximately 12 months if stored in its original sealed container at moderate temperatures.

**SAFETY**

When applying always use suitable cartridge masks, avoid skin and eye contact. Refer to Material Safety Data Sheet for detailed information.

**ENVIRONMENTAL IMPACT:**

**SEALHARD MULTICURE AC90** contains surfactant systems classed as “**Readily Biodegradable**” complying with AS4351.

**PACKS:**

20L, 200L, 1000L plastic drums/tanks

**Disclaimer:**

The technical information and application advice given in this Seal Hard Australia publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product’s suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

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