

## Technical Data Sheet

### 5335 - Flexible Underwater Sealant (Grey)



#### Product Description

A two-component, flexible epoxy sealant designed in conjunction with commercial divers to perform in underwater and wet-area environments.

Premium epoxy resins and curing agents are used for a flexible sealant with strong adhesion to most common substrates in areas of movement and/or expansion.

#### Uses

- Sealing cracks and joints in concrete and other construction materials - horizontal or vertical, wet or dry.

#### Technical Information

Vehicle Type: 2-pack epoxy/polyamine.  
 Colour: Mid-grey.  
 Finish: Glossy, slight "orange peel" texture.  
 Cleaner: MEK, acetone, methylated spirits.  
 Mix Ratio: 1:1 v:v  
 Pack Size: 4 litres.  
 Solids: 100%

#### Technical Advantages

- Non-hazmat - solventless, non-corrosive, non-flammable product for safer use and simplified, cheaper transport.
- Diver-friendly - not prone to stringing or floating (less mess and wastage). Resin-rich formulations give superior tackiness and adhesion compared to

traditional "putty" products.

- Resin and polymer fibre reinforcement and imparts impressive flexibility and impact resistance, even in cold temperatures.
- Convenient 1:1 by volume mix ratio.
- Suitable for dry, damp, wet or underwater.
- Can be applied over most substrates - concrete, metal, fibreglass, wood, PVC etc.
- Thixotropic, high-build formulation ideal for sealing and gap-filling, even on vertical surfaces.
- Good chemical resistance, including standard chlorine levels in swimming pools.
- Field-friendly - mix ratio tolerance and long storage life, combined with surface tolerance gives a truly field-friendly product.

#### Surface Preparation

Concrete - Sound surfaces should be well cleaned by high-pressure water/abrasive blasting if possible. Small areas can be cleaned by grinder; not practical for large areas. Can be applied over existing, well-adhered, abraded, clean coatings.

Metal - High-pressure water-blasting or abrasive blasting to class 2.4 (AS 1627.4) with a typical profile of 50-70 microns in a jagged pattern. Grinding acceptable for small areas. Can be applied over tight rust. For best results, clean metal surface with a sponge soaked in detergent (sealed in a locked plastic bag if working at depth) immediately before application.

Note - As a minimum in underwater applications, preparation should remove all loose surface contamination and marine growth around the site using an abrasive paper or pad, wire brush etc. Application should begin within 30 minutes of preparation to avoid re-settling on the surface. If delay is longer than 30 minutes, repeat preparation.

# Technical Data Sheet

## Mixing

For full safety instructions, consult SDS. Wear protective clothing, goggles and gloves to prevent skin and eye contact.

Mix product at a ratio of 1:1 by volume with a drill mixer. Pour Part B into Part A and mix until a consistent colour is obtained, scraping sides with a flat spatula to ensure all product is taken in. Smaller volumes (less than 1 litre) can be mixed by hand with a stiff spatula or similar instrument.

## Application

Trowel/Spatula, Gloved Hand, Caulking Gun.

If applying underwater, let sit for a moment then work/smear slowly to allow the product to displace the water and "wet" the surface.

If using a caulking gun, mix products as per instructions and pour into an empty cartridge (try to minimise air entrapment in the cartridge while pouring).

If applying into a joint, apply when the opening is at its median size, which will give the product maximum efficiency. Smear the sealant liberally into the opening and smooth off with a gloved finger.

## Coverage

The actual consumption of 5335 will depend on the application.

## Cure Schedule

	<b>Time (@ 25°C)</b>
Pot Life	- 25 minutes
Set (touch)	- 5 hours
Set (hard)	- 13 hours
Re-coat (min.)	- N/A
Re-coat (max.)	- N/A
Full Cure	- 5 days

Approximate time frames for full kit. Pot life will shorten for larger mixes. Times will decrease as the temperature increases. Abrade the surface before re-coating if the film has become hard and glossy.

## Product Characteristics

- Some settling may be experienced in Part B of 5335 over long periods of time without use. In such cases, mix separately and thoroughly before use.
- 5335 adheres strongly to most substrates, with exception to polyolefin plastics (polyethylene, polypropylene).
- For poorly prepared substrates, better results can be

achieved by priming first with 1715.

- 5335 is suitable for a wide range of temperatures but should not be used above 60°C or below 5°C.
- 5335 will be difficult to use at temperatures below 10°C. In this case, it's helpful to pre-warm the components separately in a heat bath before use.

## Storage & Disposal

Keep containers closed when not in use. Store below 50°C. Do not store in direct sunlight. Shelf life is at least 12 months in original, unopened container. Seek advice from your local council regarding accepted disposal methods.

## First Aid

### **CAUTION: KEEP OUT OF REACH OF CHILDREN.**

IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTRE (Australia - 13 11 26) or doctor/physician. If skin irritation occurs: Get medical advice/attention.



Ph: 1300 EPOXIES [www.RealWorldEpoxies.com](http://www.RealWorldEpoxies.com)

WARRANTY DISCLAIMER: The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. However as we have no control over the use to which this information is put, no warranty express or implied is intended or given. We assume no responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein.  
Date of Issue - November 15.