



**"SHELTERING YOUR INVESTMENT"**

## **ARC BIO ROOF & MULTI SEALER**

### **TECHNICAL AND MATERIAL SAFETY DATA SHEET**

#### **DISCLAIMER AND IMPORTANT SAFETY NOTICE**

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#### **SUPPLIER IDENTIFICATION AND INFORMATION**

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PRODUCT IDENTIFICATION

<b>Product name</b>	ARC Bio Roof and Multi Sealer
<b>Product Description</b>	ARC Bio Roof and Multi Sealer is a water-based, fire retardant, waterproofing and an elastomeric sealant. This product is ready for application and is used to line electric cables and water pipes. It is also used to fill and seal cracks and joints in both metal and concrete surfaces, which ultimately prevents water penetration. When the product is cured, it forms a tough, highly durable, flexible seal that has ultimate protection properties and can tolerate thermal, shrinkage movements. A satin finish is available in white, standard colours and tintable pastel base colours. The standard colours that are available are Charcoal, Medium Grey, Light Grey, Modern Red, Modern Brown, Terracotta, Black, Green, and White.
<b>Principal Characteristics</b>	<ul style="list-style-type: none"> <li>• The product has fast drying, excellent water resistance properties and excellent movement tolerance.</li> <li>• Cures to form an elastic seal and is excellent for sealing cracks and joints.</li> <li>• Stain, impact, and fire resistant.</li> </ul>
<b>Intended use</b>	ARC Bio Roof and Multi Sealer Clear has sealing and adhesive properties. The product can be applied over concrete, metal, wood etc. The ideal area for application is ponds, metal roofs, parapets, dam, gutters, down pipes, concrete roofs, pre-cast panel walls, glazing etc.

COMPOSITION

<b>TECHNICAL DATA:</b>	
<b>Drying Time</b>	Touch Dry: 30 Minutes Full Cure: 24 Hours
<b>Colour</b>	Super white, standard colours and tint able pastel base Colours.
<b>Thinner</b>	Must NOT be thinned
<b>Water Resistance</b>	Excellent
<b>Chemical Resistance</b>	Excellent
<b>Hardening Resistance</b>	Excellent
<b>Ultraviolet Resistance</b>	Excellent
<b>Spreading Rate</b>	6 - 8 m <sup>2</sup> /l (Depending on the substrate)
<b>Cleaner</b>	Water
<b>Storage</b>	Store well sealed and at moderate temperatures.
<b>De-canning Sizes</b>	5 Litre 20 Litre
<b>Application</b>	Suitable to apply with brush or conventional caulking equipment.

**HAZARD IDENTIFICATION**

<b>Primary route of exposure</b>	
<b>Inhalation</b>	Ensure proper ventilation during application in a confined space.
<b>Eye contact</b>	When in direct contact with material you need to wash out with water and seek immediate medical attention.
<b>Skin contact</b>	Prolonged and repeated contact cause no irritation. No specific symbols are required for the use of the products. The products are non-combustible and not flammable and do not have specific acute, chronic or toxic effects on humans, nor are they harmful to the natural environment when released.

**FIRST AID MEASURES**

<b>Eye contact</b>	Flush eyes with large amount of water, if irritation persists, consult a physician.
<b>Skin contact</b>	Wash the skin with soap and water.
<b>Ingestion</b>	Drink plenty of water.

**FIRE-FIGHTING MEASURES**

When applied on surfaces: Non-combustible, could act to retard the spread of flame.

<b>Smoke toxicity index</b>	Toxic gas factor – 1.0.
<b>When cured (not applied)</b>	Can burn.
<b>Extinguishing agents</b>	Normal foam, powder, water spray, or carbon dioxide (CO <sub>2</sub> ).

**ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Follow normal safety precautions and if spillage occurs in a confined space, ensure there is adequate ventilation. There is no LD 50 data available for the products and the concentrations of particularly hazardous materials are so low that they are not considered a significant hazard under the recommended conditions of use.
<b>Environmental precautions</b>	No environmental hazard when applied to surfaces or cured (solidified). No threat to freshwater or marine life.
<b>Methods for cleaning up</b>	Contain the spillage with sand or earth and take up spilled material (if possible) on a non-flammable absorbent (sand, earth, diatomite, chemical binders) and put in an appropriate container. Label the container with the waste designation, and dispose according to the legislation – do not use solvent.

**HANDLING AND STORAGE**

<b>Safe handling advice</b>	Avoid direct contact with skin and eyes. Avoid inhalation and ingestion. Take personal protective measures and follow the protection and safety regulations. When working with coating products in a spray cabin, sufficient control of aerosols is unlikely and breathing apparatus such as respirators can be worn during spraying if preferred.
<b>Measure to prevent fire</b>	No specific preventative measures are required but keep the application area well ventilated.
<b>Requirements for storage</b>	Store in original containers (if possible) and keep tightly closed in a cool, dry, well-ventilated area. Although the products are not defined as dangerous goods, protect the products from direct extreme heat such as sources of ignition. Avoid direct sunlight and do not store in conditions below freeze-point.
<b>Shelf life</b>	±2 years if well sealed.

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure limit:** OHSA PEL 15 mg/m (total dust), 5 mg/m (respiration fraction)

<b>Personal protection:</b>	
<b>Respiratory protection</b>	Respiratory programme must be followed whenever workplace conditions warrant a respirator's use. Not required if airborne concentrations are maintained below exposure limit listed in exposure limit information
<b>Eye Protection</b>	Safety glasses with impenetrable side shields are recommended.
<b>Skin protection</b>	Gloves may be used if required, but no known effects have been observed.

**STABILITY AND REACTIVITY**

<b>Stability</b>	Stable when following the handling and storage recommendations.
<b>Conditions to avoid</b>	Avoid temperatures above 40°C, direct sunlight and below freeze point for storage conditions.
<b>Incompatibility</b>	None known
<b>Hazardous decomposition</b>	By fire – carbon dioxide (CO <sub>2</sub> ) and carbon monoxide (CO).

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid
<b>Colours</b>	Characteristic of the specific product (faintly similar to a PVA paint product in some cases)
<b>Odour</b>	Characteristic of the specific product.
<b>PH ~</b>	8 -9
<b>Reactivity</b>	Salt fog resistant
<b>UV Resistance/Weathering</b>	No visible breakdown
<b>Density</b>	> 1 gm/cm
<b>Vapour density</b>	Heavier than air
<b>Solubility</b>	Miscible in / with water prior to cure
<b>Evaporation rate</b>	< 1 water (see section 5)

**TOXICOLOGICAL INFORMATION / HEALTH EFFECTS**

<b>Acute toxicity</b>	No known effects – health hazard rating in group 4 (minimal) of the Recommended Practice (ARP 006: 1991) guideline
<b>Skin contact</b>	No known effects
<b>Eye contact</b>	Splashes can cause eye irritation
<b>Chronic toxicity</b>	No known effects
<b>Carcinogenicity</b>	No known effects
<b>Mutagenicity</b>	No known effects
<b>Neurotoxicity</b>	No known effects
<b>Reproductive hazards</b>	No known effects

**CONTINUED...**

<b>Additional information</b>	The products have not been tested, but their classifications calculated according to conventional methods from the dangerous substance regulations. The products have been used to paint aquariums that house tropical fish and ponds that house Koi fish with no effects at all. The products do not emit noxious fumes or odour during and after application.
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**ECOLOGICAL INFORMATION**

<b>Aquatic toxicity</b>	No known effects
<b>Biodegradability</b>	Products are considered highly biodegradable, but not tested
<b>Bioaccumulation</b>	No known effects
<b>Mobility</b>	Not tested
<b>Additional information</b>	The product is environmentally friendly with a very low VOC (Volatile Organic Compound) as tested by the Huntingdon / SWL laboratories, Report number: 261394 – 23093 and described by America as a revolutionary breakthrough.

#### DISPOSAL CONSIDERATION

<b>Disposal key</b>	080103 – EWC waste from water-based paints.
<b>Disposal method</b>	Hand over empty packaging to an authorised disposal company / waste company – the waste regulations of the appropriate authorities are to be followed.

#### TRANSPORT INFORMATION

<b>ADR / FID (Road)</b>	Not dangerous materials according to these regulations.
<b>GGVSee / MDG (Maritime)</b>	Not dangerous materials according to these regulations.
<b>IATA (AIR)</b>	Not dangerous materials according to these regulations.

#### REGULATORY INFORMATION / EEC CLASSIFICATION

<b>EEC hazard classification</b>	None of the substances of the products are classified by the EEC as hazardous.
<b>TSCA certification</b>	All of the substances in the products are listed, or exempt from listing, on the TSCA.
<b>National legislation</b>	Pay attention to the Occupational Health and Safety Act.

#### OTHER INFORMATION

All data is based on the current knowledge of Anti Rain Concepts and describes the product with reference to safety data and is therefore not intended to guarantee certain properties.

#### APPLICATION INSTRUCTIONS AND TECHNICAL DATA

- These instructions are not intended to show product recommendations for specific services.
- They are issued as an aid in determining correct surface preparation and application procedures.
- It is assumed that the proper recommendations have been made.
- These instructions should be followed closely to obtain the maximum service from the material.

#### FEATURES INCLUDED:

- Quick drying - overcoat 30 - 60 minutes
- Excellent flexibility - will never harden
- Ultraviolet and weather resistant: 75, 000 hours +
- Good abrasion resistance
- Exceptional performance in wet weather.
- Rust prevention
- Colour fastness
- Zero flame spread



- Recommended use:** Exterior and interior walls, structural steel, piping, tank frames, rail cars, corrugated iron, offshore oil and gas stations, boats, wood, asbestos, glass fibre, copper, glass and aluminium.
- Excellent resistance to:** Acids, alkalis, water, salt solutions and solvents.
- Temperature resistance:** Minus 50°C - 180°C. At 110°C loss of gloss is observed, and discoloration takes place, without loss of film integrity.
- Application:** Suitability prepared concrete, metal and any surfaces as recommended.
- Compatible Coatings:** A test patch is recommended before use of most coatings. Contact your ARC distributor for specific information.

**REQUIREMENTS FOR STORAGE AND APPLICATION**

Parameter	Storage (Unopened)	Paint	Substrate	Environment
% RH (Relative Humidity)	100 % Maximum	-	Min 2°C above Dew Point	85 % Max
Temp °C Min	5°C	5°C	5°C	5°C
Temp °C Min	40°C	40°C	40°C	40°C

- Surface Preparation:** Previously painted and primed surfaces must be cleaned by removing all grease, paint and loose friable dirt with ARC Cleanwash. Old enamel or oil painted surfaces should be sanded to a matt finish. Trial patches are required prior to full application.
- Application:** Suitable to apply with brush, roller and spray.

