



RESOLCOAT 4070 AL

Hardener 4078 AL

Food - Grade Epoxy Coating

- Approved for food contact
- Fast hardening in film
- Excellent chemical resistance
- Benzyl alcohol free formula



RESOLCOAT 4070 AL epoxy coating is formulated in replacement of older systems containing aromatic amines which no longer meet the regulatory requirements of the European Union.

RESOLCOAT 4070 AL is a 100% dry extract anti-corrosion epoxy coating formulated to provide maximum resistance to chemicals agents. It is designed to be used as a protective liner for tanks and machinery in contact with food products.

The system has a short hardening time in film enabling fast applications and reduced down time of existing installations. It provides a smooth, non-porous **high gloss finish**.

The RESOLCOAT 4070 AL / 4078 AL is indicated for all food grade applications. It can be applied by brush, roller or airless. Unlike other formulas containing benzyl alcohol that transmits a sour almond taste to the foods & liquids in contact, the 4070 AL guarantees a tasteless & odourless coating. It is also very little sensitive to ambient humidity and may be applied at temperatures as low as 5°C.

On porous surfaces, it is recommended to prime the surface with a coat of 150g/m² of 1010AD resin with 1015 hardener.

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PHYSICAL CHARACTERISTICS @ 23°C

Visual aspect

4070 AL : White thixotropic liquid

4078 AL : Slightly yellow thixotropic liquid

Mix : Thixotropic off-white liquid

Density

References	4070 AL	4078 AL	Mix
Density	1.35 ± 0.03	1,25 ± 0.03	1,30 ± 0.03

CURING & HARDENING

Potlife on 100g mix @ 25°C : 30 min

Polymerization on 500µm film @ 25°C : 6 h

Final drying time @ 25°C : 7 days (advised drying time before initial filling of newly coated tank)

Coverage : 0,65 kg/m² for a 500µm thickness dry film per coat

GLOBAL MIGRATION *REFERRING TO NF EN 1186-1 (01/2003)*

Foodstuffs	Simulants	Global migration
For acidic foods	Acetic acid 3%	1,3mg/L
For alcoholic beverages	Ethanol 10%	2,2mg/L
For dairy products	Ethanol 50%	2,5mg/L
Various	Propane diol 100%	6,9mg/L

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MIXING RATIO

	By weight
Resin 4070 AL	100
Hardener 4078 AL	42

Warning : the mixing ratio must be accurately followed. It is not possible to change the ratio, it would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity. It is important to note that epoxy systems tend to heat up much faster in a pot than as a thin film. It is preferable to only mix the necessary amount usable within the given pot life. Keeping the mixture in flat open containers reduces the risks of exothermic reaction. Pouring the mix in a second mixing container to ensure a perfect mix is recommended (double potting).

APPLICATION

Although **RESOLCOAT 4070 AL** polymerizes perfectly starting from temperatures of 5°C, it is preferable to mix the resin component with the hardener **close to 20°C** to ease the mixing and the air releasing of the mix. The standard procedure of working with epoxy coatings applies this system.

The 4070 AL system can be applied by brush, roller, or airless gelcoater. 4070 AL has been formulated for application of 500µm without sag on vertical surfaces. Two coats are recommended.

Over coating: Its fast drying time in film will enable **over coating** within 4 to 8 hours.

Should over coating be done after 8 hours, deglazing the surface will be necessary.

Curing: 24 to 48h for optimum cure at room temperature.

It is recommended to do small mixes in flat, wide open containers as the 4070 AL / 4078 AL is very reactive. RESOLCOAT 4070 AL may be applied on any type of substrates : wood, concrete, brick, composite, metal ... as long as the surface is degreased and clean.

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PACKAGING

Kits 4070 AL / 4078 AL :

- 1kg : (0.7+0.3)kg
- 5.68kg : (4+1.68)kg
- 14.2kg : (10+4.2)kg
- 71kg : (2x25+21)kg

TRANSPORT & STORAGE

Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat and cold preferably between 10°C and 30°C in a well ventilated area.

HEALTH & SAFETY

It is advised to follow basic rules such as avoiding skin contact, wear masks and gloves. Please read our standard health and safety sheet for more information.

In case of eye contamination, wash with water and seek medical advice.

Nota : The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we manufacture and supply.



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