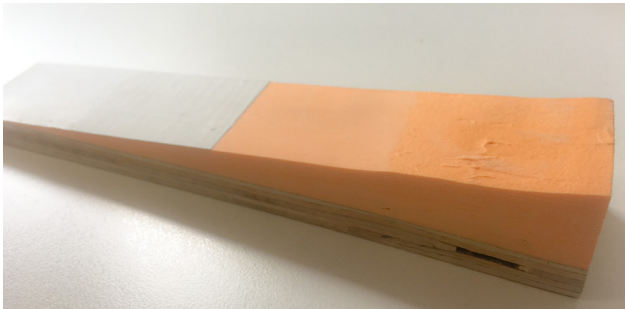


resoltech 8050L

Hardener 8058

Epoxy profiling & fairing filler



- Simple mixing ratio 1/1 by weight or volume
- Easy sanding
- Slow version of 8050
- Lightweight: 0.8 density

INTRODUCTION

RESOLTECH 8050L / 8058 is slow version of 8050 lightweight **and easy sanding epoxy filler**. It is a premium choice for profiling & fairing above and below the waterline for professional applicators on steel, aluminum and composite materials.

The specially formulated lightweight epoxy filler will apply from very thin layers up to 25 mm in one coat without the risk of sagging/slumping. This filler will result in **a high strength and impact resistant watertight surface**.

The formulation of the 8050L / 8058 will help improve health and safety for the workers and follows the latest EU regulation (CE) n°453/2010 and **does not contain any CMR materials**.

When sanded, the surface of this system is smooth enough to be directly overcoated with RESOLCOAT 3010T / 3014T high build epoxy primer and is **compatible with all paints & primers**.

With its slow curing characteristics, RESOLTECH 8050L / 8058 is recommended for large/thick applications or in warm climates. It may be applied in covered facilities or outside as it offers little sensitivity to climate conditions.

Its excellent waterproof property enables to guarantee long lasting barriers when used as osmosis treatment.

Easy to sand or mill with CNC, RESOLTECH 8050L / 8058 may be used as profiling filler on low density foams blocks for plugs manufacturing and tooling boards adhesive.

RESOLTECH 8050L / 8058 is the product that offers long-term performance of superior quality.

MIXING RATIO

The mixing ratio must be respected neither excess nor default. The mixture should be thoroughly stirred to ensure full homogeneity. It is recommended to use flat spatulas & trowels to hand mix the resin & hardener on a flat surface to avoid air incorporation during the mix.

System	8050L/8058
Mixing ratio by weight	1 / 1
Mixing ratio by volume	

APPLICATION

- It is mandatory to respect the mixing ratio, all excess or default will result in a loss of thermo-mechanical properties.
- Substrate temperature should be minimum 10°C and maximum 35°C. Product temperature should also be minimum 10°C and maximum 35°C. Ambient temperature should be minimum 10°C and maximum 35°C.

Surface preparation :

As general rule: all substrates must be sanded, cleaned and dried

- On previously painted surfaces : clean thoroughly to degrease the surface and sand with 80-180 grade paper or remove all previous coatings if in poor condition and prime the substrate.
- Steel/Aluminum: Prime with RESOLCOAT 3010T / 3014T.
- Wood: Prime stable constructions only, with RESOLCOAT 1010 / 1014.
- GRP: For osmosis treatment, prime the sanded fibre with 1020L / 102xL in order to waterproof the substrate and lightly sand/deglaze before application of filler.
- BARE GRP/COMPOSITE: Remove surface wax/mould release agent with degreaser, sand with 80-180 grade paper. If left for longer than 24 hours, two component epoxy primers and fillers will need sanding with 80-180 grade paper to ensure a good mechanical adhesion.

Mix the two components thoroughly to an even colour. Apply firmly in a spreading action. When hardened, sand smooth with 80-180 grade dry paper.

Overcoating:

RESOLTECH 8050L / 8058 may be overcoated with itself or with RESOLCOAT 3010T / 3014T as soon as it is cured enough.

Warning: *On thick applications, with high temperatures it is recommended to test the desired thickness at application conditions & substrate temperature to ensure that no exothermic reaction occurs.*

Application coverage vs thickness :

Coverage will depend on the thickness needed to profile. The following table indicates the average consumption vs thickness.

Thickness	Coverage
1 mm	0.8 kg/m ²
5 mm	4 kg/m ²
10 mm	8 kg/m ²

PHYSICAL CHARACTERISTICS

1 Visual aspect

8050L :
Orange paste

8058:
Light white paste

Mix :
Light orange paste

2 Density

References	8050L	8058
Density at 23°C	0.80	0.80
Mixed density at 23°C	0.80	

ISO 1675, ± 0.05 tolerance

REACTIVITY

Gel time

System	8050L/8058
Gel time on 70mL (~4cm thickness) at 23°C	64min
Temperature at exothermic peak on 70mL at 23°C	*
Time at exothermic peak on 70mL at 23°C	*
Gel time on 2mm film at 23°C	1h40min

Reactivity measurements made with Trombotech®
*Non applicable

HARDENING AND POST CURING

In order to obtain the maximum thermo-mechanical properties, post curing cycles as below have to be fully respected. The table below shows the glass transition temperatures (DMA type) depending on curing cycles.

Glass transition temperature & Hardness

System	8050L/8058	
14 days at 23°C	T _g	51°C
	Shore D Hardness	63
16h at 60°C	T _g	70°C
	Shore D Hardness	65

T_g realized with Kinetech® (DMA type), Shore Hardness (ISO 868)

MECHANICAL PROPERTIES

System	8050L/8058	
14 days at 23°C	FLEXION Modulus Maximum strength Elongation at maximum strength	0.88 GPa 18.7 MPa 2.1%
16h at 60°C	FLEXION Modulus Maximum strength Elongation at maximum strength	1.04 GPa 27 MPa 2.1%

ISO 178

PACKAGING

- Box kit of 0.5kg + 0.5kg
- Box kit of 2.5kg + 2.5kg
- Bucket kit of 15kg + 15kg
- Drum kit of 150kg + 150kg

TRANSPORT & STORAGE

Keep containers sealed and away from heat and cold preferably between 10°C and 30°C in a well ventilated area. Our products are guaranteed in their original packaging (check expiry date on the label).

HEALTH & SAFETY

Skin contact must be avoided by wearing protective nitrile gloves & overalls or other protective clothing. Eye protection should be worn to avoid risk of resin or hardener entering the eyes. If this occurs flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.

Ensure adequate ventilation in work areas. Respiratory protection should be worn with ABEKP coded filters.

RESOLTECH issues full Material Safety Data Sheet for all hazardous products. Please ensure that you have the correct MSDS to hand for the materials you are using before commencing work.



The data provided in this document are provided good-faith and are based on the test in laboratory and our practical experience and is believed to be accurate. Considering the application of our products gets away from our control, 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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