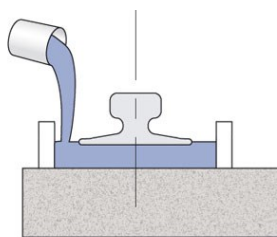


RESOLTECH 2050E GRIS N°1

Hardener 2059E

Epoxy casting system for crushing machines

- Easy-to-use pre-dosed kits
- Filled system with improved flowability
- Room temperature curing



RESOLTECH 2050E GRIS N ° 1 / 2059E system is a filled epoxy casting system that allows any type of sealing or gravity levelling.

This system has the following performances:

- Excellent wettability of the substrate
- Excellent adhesion even on wet substrates
- Excellent flowability

Thanks to its low viscosity and exceptional wettability, RESOLTECH 2050E GRIS N°1 / 2059E is suitable for many applications:

- Motors sealing
- ground-type crushing machines anchoring
- Parts subject to vibrations sealing
- Rails or other guide parts levelling

Resin 2050E GRIS N°1

Hardener 2059E

MIXING RATIO

System	2050E GRIS N°1 / 2059E
Mixing ratio by weight	100 / 7

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.

APPLICATION

It is recommended to use the products at a temperature close to 18-25°C to facilitate mixing and pouring. However, the system can be used between 10 and 35°C. A lower temperature increases the viscosity of the mixture and its gel time. On the contrary, a higher temperature decreases the viscosity of the mixture as well as its gel time. The technique of double potting is strongly recommended: the hardener is mixed in the resin bucket by scraping the edges well. The mixed bucket 2050E GRIS N°1 / 2059E is poured into another clean bucket and mixed again, in this way there is no resin at the bottom of the pot that has not been in contact with the hardener.

PHYSICAL CHARACTERISTICS

Visual aspect

2050E GRIS N°1 :	Grey filled liquid
2059E :	Transparent yellow liquid
Mix :	Flowable grey filled liquid

Density according to ISO 1675 (± 0.05)

References	2050E GRIS N°1	2059E
Density	1.92	1.00
Mix density	1.86	

Viscosity according to ISO 2555 & ISO 12058.2 ($\pm 15\%$ tolerance)

References	2050E GRIS N°1	2059E
Viscosity at 23°C (mPa.s)	27 500	32
Mix viscosity at 23°C (mPa.s)	7 500	

Resin 2050E GRIS N°1

Hardener 2059E

REACTIVITY

System	2050E GRIS N°1 / 2059E
Gel time on 70mL at 23°C (4cm thickness)	1h
Temperature at exothermic peak on 70mL at 23°C	52°C

Reactivity measurements made with Rheotech®

CURING & POST-CURING

It is important not to start the curing at temperatures above 40°C without previous advice. High initial curing temperature may generate stress and shrinkage. Most of the thermo-mechanical properties are obtained after 7 days at room temperature.

Polymerization is exothermic. It is recommended to conduct preliminary trials before industrial applications.

"Which are the factors that could increase or decrease temperature at the exothermic peak? "

Temperature at exothermic peak decreases if:	Temperature at exothermic peak increases if:
Volume to be cast is small	Volume to be cast is important
Thickness is small and surface in contact with air is important	Thickness is important and surface exposed to air is not important
Resin is filled with mineral charge	Resin is un-filled or filled with an insulating filler such as hollow glass microspheres
Room temperature is low	Room temperature is high
Substrate onto the resin is cast is a good thermal conductor (metal)	Substrate onto the resin is cast is a good thermal insulant

Resin 2050E GRIS N°1

Hardener 2059E

PACKAGING

Available kits of 2050E GRIS N°1 / 2059E :

- 10kg : (9.35+0.65)kg
- 20kg : (18.7+1.3)kg
- 42.8kg : (40+2.8)kg

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 stated on the label).

HEALTH & SECURITY

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.

Nota : 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.