

# Resin

## Damival® 15208 OA00 / 15208 OB01

- ▶ Cold curing epoxy system
- ▶ Class F
- ▶ Good thermal conductivity
- ▶ Long gel time
- ▶ Available in pre weighted packing

### General description

Two parts epoxy system, filled, cold curing.

### Application

Epoxy system for the casting of connection boxes for generators end bars. Approved in medium and large generators industry.

### Processing

The gel time and the curing time depend on the mixed volume, the temperature and the thickness of the layer.

Final properties are depending on the curing level.

A too large amount of resin mixed with the hardener may create a strong exothermic reaction with a rapid increase of temperature.

The resin is packed in cans of 7,8kg and the hardener in pre dosed cans of 13kg to avoid any weighting operation.

Mixing ratio (resin/hardener):

Weight: 60 / 100

### Storage Conditions

Resin : 18 months in original packaging, at maximum 25°C, protected from moisture. Possible storage at higher temperature for short period of time. A storage above 25°C will increase the settling. May crystallise below 5°C. In such case, warm up to 60°C until crystals disappear, and stir before use.

Hardener: 12 months in original packaging, at maximum 25°C, protected from moisture. Possible storage at higher temperature for short period of time. A storage above 25°C will increase the settling.

### Packaging

Resin : 7,8kg in 10 liters drum,  
Hardener : 13kg in 22 liters drum

### Health and safety

Avoid any contact with skin and eyes,  
Work in a well ventilated area, far from any flame,  
Wear safety clothes, gloves and goggles.

Read the Material Safety Data Sheet for complete information.

	Value (Resin)	Value (Hardener)	Value (After mixing)	Value (After curing)	Test norm
<b>Physical properties</b>					
Colour	Red	Black	Brown		
Density at 25°C	1,40	1,67	1,56		
Viscosity at 25°C	mPa.s	25000 ± 15000	5000 ± 2000	10300	
Gel time at 25°C (300 g)	mn		285		TECAM
Water absorption (240 h at 25°C)	%			1	
Hardness Shore D				85	ISO 868
<b>Mechanical properties</b>					
Flexural strength	MPa			55	
Flexural modulus	MPa			1400	
<b>Electrical properties</b>					
Dielectric strength (50% R.H./ 23°C)	kV/mm			20	
Dielectric constant (50Hz/20°C)				3,5	
Dissipation factor (50 Hz/20°C)				0.017	
<b>Thermal properties</b>					
Coef. of Thermal Expansion (T° < Tg)	µm/m/°C			53	TMA
Thermal conductivity	W/m.K			0.58	
Glass transition temperature	°C			60	DMA
Coef. of Thermal Expansion (T° > Tg)	µm/m/°C			147	TMA
Range of use				- 40°C / +160°C	
Weight loss at 150°C	%			0.7 (1000h)	

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