

# POLARIS

## R100 Epoxy Gel

**Description** R100 Epoxy Gel is two component epoxy adhesives. Epoxy Gel offers lower viscosity & lower surface tension. Both these properties are advantageous while formulating. The low viscosity improves the cost effectiveness by increasing filler loading & the low surface tension improves adhesion by better substrate wetting, it also helps in better pigment wetting and thereby improve the pigment dispersion and stability.

A wide variety of curing agents are available to cure this liquid epoxy gel at ambient conditions and also at elevated temperature. Sometimes systems based on this grade are post cured to improve certain characteristics such as glass transition temperature and chemical resistance.

### Applications

- Very impartial colour
- Non yellowing
- Specialised for Satuario, Australian white, thassos marble
- Easy dispersion with POLARIS Pigment

### Specification

Appearance	Visual	Clear Gel
Colour (A and B)	Clear CC 2200	0.5 G Max.
Mixing Time (A & B)		30 to 40 °C (5 to 15mins)
Viscosity @25°C	ASTM D 2196-05	20000 CPS

### Typical properties \*

Epoxide Value	ASTM D 1652-04	4.76 – 5.13
Density (A and B) @25°C	ASTM D 4052	1.18 g/ml
Moisture content	ASTM E 203	< 0.1 % max.
Tensile strength ISO 178	30 to 40 N/mm <sup>2</sup>	
Mechanical property	Bending strength	60 to 70 N/mm <sup>2</sup>

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**Packing** R100 is packed and delivered in steel containers (2.25kg, 1.5kg, 10kg per container as a standard pack. Other packs are available upon request.

**Storage** R100 gel should be stored in original tightly closed container, in dry and warm conditions to avoid crystallization. Under these conditions, it has a storage life of at least two years from the date of manufacturing. R100 may become hazy or crystallize upon long storage especially when exposed to low temperatures. The Gel can be restored to its original condition by warming to 55-60°C while stirring. For handling or pumping the maximum temperature recommended is 80°C.

**Handling** For more instructions on storage and handling of R100 please refer to the MSDS of the product.

\*Note: Technical collaboration by ICR SPRINT Italy.

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