



## EPOXY RESIN – 21 CLEAR

### Two Component Self Levelling Epoxy Resin

Specification According to: ASTM C881-99, Type I, Grade 2, Class B+C.

#### DESCRIPTION

**EPOXY RESIN - 21 Clear** is a two component, low viscosity epoxy resin with outstanding bonding capabilities. The product is 100% solids therefore after hardening no shrinkage occurs, this coupled with the material's extremely high penetration ability render **EPOXY RESIN - 21 Clear** highly successful in construction applications.

#### COMPLIANCE - CERTIFICATION

**EPOXY RESIN - 21 CLEAR** is **CE** certified according to the European Standard **EN 12614**.

#### RECOMMENDED FOR

1. **Bonding of:**
  - Cement mortars
  - Metal structures
  - Old and new concrete
2. **Filling, Sealing of cavities and cracks in:**
  - Pillars
  - Foundations
  - Beams
  - Walls
3. **Flooring Applications**
4. **Primer**

#### FEATURES AND BENEFITS

- Excellent Adhesion on almost all substrates.
- 100% Solids

- Good Heat Resistance, -40°C - +90°C.
- No shrinkage upon drying.

#### METHOD OF APPLICATION

Mix the two components of **EPOXY RESIN - 21 Clear** until the mixture becomes homogenous and subsequently apply accordingly:

#### INJECTION RESIN:

For this application, the crack must have a maximum depth of 5 mm, and the substrate temperature should be between +5 °C~+30 °C. Application on slightly damp substrates is also possible.

#### BONDING RESIN:

For this application, the surface must be clean free from standing water and debris. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membranes must be removed.

Mix the two components of **EPOXY RESIN - 21 Clear** until the mixture becomes homogenous and apply with bush or roller. In the case of bonding new and old concrete the application is carried out when the resin is in a pre-gelled state.

**Consumption: 0,3-0,7kg/m<sup>2</sup>.**

#### PACKAGING

1kg, 5 kg.



## EPOXY RESIN – 21 CLEAR

<b>CE</b>
25
<b>ALCHIMICA S.A.</b> 7 Lampsakou Str, ATHENS – GREECE
OX-230
EN 12614 2928 EPOXY RESIN 21 CLEAR Concrete surface protection systems - Coating
www.alchimica.com

Essential characteristics	Performance	Harmonized technical specification /Test standards	Harmonized technical specification
GLASS TRANSITION TEMPERATURE	41.1	EN 12614	EN 12614
ABRASION RESISTANCE	<50mg loss (c17s/1000/1000)	ASTM D6040	
HARDNESS	75-80 Shore D	ASTM D2240	



## EPOXY RESIN – 21 CLEAR

### TECHNICAL SPECIFICATIONS

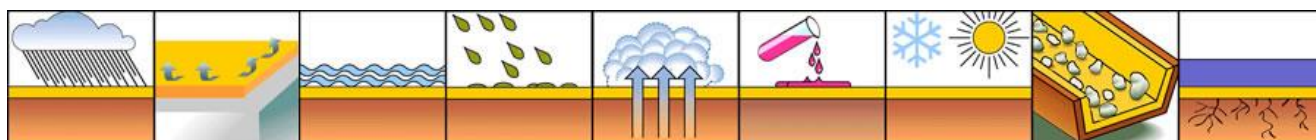
#### **LIQUID PRODUCT:**

PROPERTY	UNITS	METHOD	SPECIFICATION
-Pot Life (25°C) & 55% RH	Min.	Internal Method	± 20
-Viscosity (initial mixing) (BROOKFIELD)	cP	ASTM D2196-86, at 25°C	700-900
-Density	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, at 20°C	±1

#### **DRY PRODUCT:**

PROPERTY	UNITS	METHOD	SPECIFICATION
-Service Temperature	°C	-	-25 to 80
-Adhesion Concrete	N/mm <sup>2</sup>	ASTM D4541	>3
-Compression Strength	N/mm <sup>2</sup>		>40
-Tensile Strength, 23 °C	N/mm <sup>2</sup>	ASTM D412 / EN-ISO-527-3	>30
-Shrinkage	-	-	0
-Freeze/Thaw resistance	-	-	Excellent
-Resistance to solvents, lubricants etc.	-	-	Excellent

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Certified quality, environmental and occupational health & safety management systems:  
ISO 9001/14001 & ISO 45001.

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