

RESIN 78-70-75

Tech. Sh. A07

**LINEA
FRP SYSTEM**

Technologies and materials
for consolidation



Pure epoxy-base structural adhesive

Description

Two-component, epoxide compound available in two version:
- type 78 structural binding and cohesion between castings;
- type 70-75 for binding with epoxide adhesive and mortar.

Uses

RESIN 78 is a two-component, epoxide resin emulsifiable in water, suitable for binding of old and new concrete castings, priming, binding of structural elements, protection of reinforcement bars in restoration cycles with non-shrink mortars. When mixed with fillers and aggregates, it can be used as an epoxide mortar for humid supports.

RESIN 70 is used, specifically, as a binder for preparing mixes and epoxy-base mortars, quartz mixtures, fillers and selected aggregates.

RESIN 75 is thixotropized version.

The main uses are for resin block, flooring mortars for restoration of structural elements in concrete and wood (beam heads etc.), adhesive for FRP SYSTEM, etc.

RESIN 70 - 75 are marked CE according with EN 1504-4.

Advantages

High binding and adhesive capacity for concrete structures.

Very good primer for coating with resin base.

Suitable for humid surface (78).

Versatility of epoxide binder (70-75) with aggregate mixtures of different types and use.

High level of technological characteristics and very good durability of epoxy system.

Technical data

	Test Type 78	Type 70-75
Sp. Gr.	1.05 g/cm ³	1.2 g/cm ³
Pot life a 20°C (500g mass)	50 min.	30 min.
Harding (start) at 20°C	7 hrs	6/7 hrs
Harding (complete) at 20°C	7 days	7 days
Resistance to compressive stress	46 MPa	82 MPa
Resistance flexural/tensile stress	40 MPa	45 MPa
Adhesion to concrete	> 2.5 MPa	> 2.5 MPa
Minimum temperature for use	>= 10°C	>= 10°C

Instructions for use

RESIN 78

Prepare the surface to be treated, removing any dust, grime or loose material. Eliminate all traces of oil grease by washing with water (under pressure) containing surface-active additives.

Mix the two components of the system thoroughly. The product is applied straight over the surface with brush, roller or sprayer.

Subsequent laying of concrete or mortar must take place while the product is still fresh and sticky.

In very hot climates or for over-laying of castings on surfaces not subjected to great stress or in the case of priming for subsequent coating, add some percentage of water to RESIN 78 and apply, taking care to distribute uniformly over the surface.

RESIN 70 - 75

Preparation of epoxide mortars for floors.

In a mixer for resins, add to one part of already-mixed product (mixture of the two components of the system) 8-10 parts of quartz sand pre-selected (optimum granular curve) for the thickness required.

The epoxide mortar thus produced is laid over the previously cleaned and primed surface and is then compacted and flattened mechanically. For further details regarding finishing techniques contact **G&P intech** Technical Department.

Preparation of fluid, epoxide mortar for restoring elements in concrete and wood (RESIN 70).

Proceed as described above but reducing the aggregate/resin ratio to 3/5 parts. The mortar thus obtained, richer in resin, will present better resistance to flexural and tensile stress and will be more resilient with enhanced impermeability.

The mortar is poured into caissons e.g. for headpieces of beams or into weakened sections (following the necessary cleansing and priming).

RESIN 70, used straight (without any substance added) can be used for connection sealing between reinforcement bars (steel or glass resin) and in structures to be reinforced (wood, concrete) or similar work.

Preparation of epoxide facing/patching materials for the restoration of elements in concrete or wood (RESIN 75).

Proceed as in the previous paragraph, using RESIN 75 (thixotropized version) as binder.

The aggregate in these cases is normally a filler, aired quartz etc.

RESIN 75 is suitable as adhesive for FRP SYSTEM, for concrete and metal. Glue the system with fresh product. If the surfaces are humid, type 78 is recommended as binder.

Yield

RESIN 78 for casting overlay: 300-500 g/m².

RESIN 70 - 75 as required.

Colour

Transparent, amber.

Packing

Tins. Pails.

Caution

Protect the hands with gloves. Use glasses to protect the eyes from accidental splashing, which may cause irritation.

Storage

Shelf-life of 12 months when stored in the original sealed packaging in a dry, heated place.

Protect against frost and low temperatures.



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