

GEORESIN 035 is a structural polyurethane foam which - injected into voids beneath concrete slabs, walkways, foundations, walls, etc. - stabilises the underground and lifts it to the desired height without excavation.

GENERAL PROPERTIES AND APPLICATIONS

GEORESIN 035 is a polyol formulation. Mixed with GEORESIN HARDENER, it generates an expandable foam with a free rise density between 30 and 40 kg/m³, depending on the volume ratio. It's a process which stabilizes the base and strengthens the slab, with a minimum of disruption in time and inconvenience, a minimal loss of use and half the cost of a replacement. GEORESIN 035 avoids fixing underlying problems with uneven or settling substrate with mortar soil stabilisation. It addresses the cause of the problem by high strength void filling, soil stabilisation, erosion control and precise slab lifting. GEORESIN 035 re-establishes contact between the slab and the soil and is strong enough for heavy traffic or loads as of 0,5 h after the injection. GEORESIN 035 can be injected in muddy and wet undergrounds without losing its lifting capabilities.

TECHNICAL DATA

GEORESIN 035		
Property	Unit	Value
Density at 20°C	kg/m ³	1030
Viscosity at 20°C	mPa.s	204
Appearance		Clear yellow orange

GEORESIN HARDENER		
Property	Unit	Value
Density at 20°C	kg/m ³	1230
Viscosity at 20°C	mPa.s	230
Appearance		Black

PROCESSING

GEORESIN 035 should only be used in combination with GEORESIN HARDENER, using a two-component volume pump and correct mixing ratio. The working temperature range of the resin, machine applied, is from 30°C to 55°C. However, avoid filling large volumes and cavities at temperatures over 45°C, to prevent exothermic induced spontaneous combustion.

DIRECTIONS FOR PROCESSING

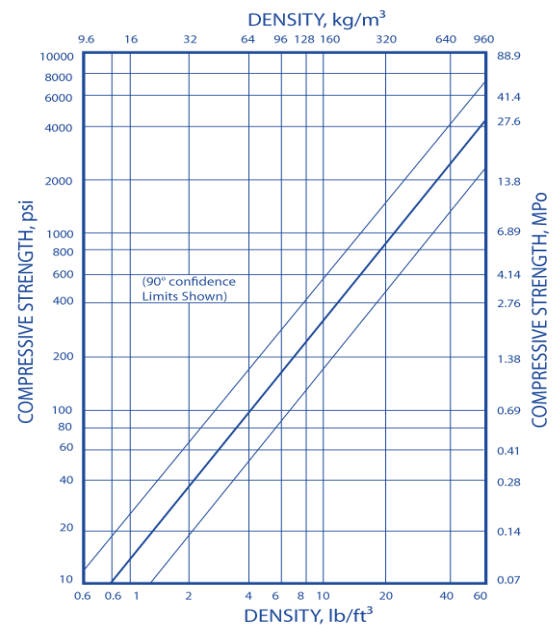
Recommended mixing ratio	Volume	Weight
GEORESIN 035	100	103
GEORESIN HARDENER	100	123

Manual foam test at 20°C	Volume ratio resin/hardener: 1/1
Start time (s)	9
Gel time (s)	25
Free rise density (kg/m ³)	32

These values are given only as a guide and must be verified in each individual case on finished parts manufactured under the processor's production conditions.

GRAPHIC

Indicative values for similar systems - no specifications.



Effect of Density on Compressive Strength

PACKAGING

	GEORESIN 035	GEORESIN HARDENER
Drum	210 kg	250 kg
IBC	1045 kg	1250 kg

STORAGE

Storage temperature: 5°C - 30°C. Shelf life: 12 months. Store the material in its original packaging to prevent moisture ingress in a dry well-ventilated area not exposed to direct sunlight and in compliance with local safety requirements.

SAFETY AND HEALTH PRECAUTIONS

Before starting, consult the safety data sheet.