

GEORESIN 055 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 055 is a polyol formulation which, mixed in the appropriate ratio with GEORESIN HARDENER, generates an expandable foam with a free rise density between 40 and 60 kg/m<sup>3</sup>, depending on the application. It's a process which stabilises 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 055 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 055 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 055 can be injected in muddy and wet undergrounds without losing its lifting capabilities.

## TECHNICAL DATA

GEORESIN 055		
Property	Unit	Value
Density at 20°C	kg/m <sup>3</sup>	1030
Viscosity at 20°C	mPa.s	204
Appearance		Clear yellow orange

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

## PROCESSING

GEORESIN 055 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 055	100	103
GEORESIN HARDENER	100	123

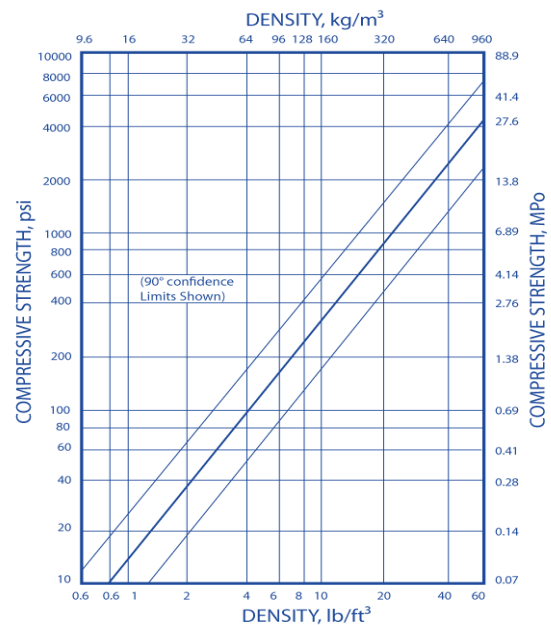
Manual foam test at 20°C	Volume ratio resin/hardener: 1/1
Start time	8 s
Gel time	28 s
Tack free time	50 s

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.

Further information about mechanical properties and resin properties such as chemical resistance and environmental impact are available upon request.

## GRAPHIC

Indicative values for similar systems - no specifications.



Effect of Density on Compressive Strength

## PACKAGING

	GEORESIN 055	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 read the material safety data sheet carefully. Protect your health! While working with this material, safety goggles, gloves and safety clothing must be worn at all times. While injecting, a full face shield is strongly recommended. Spills and blowouts do happen! Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children! Observe container labels, MSDS, and instructions in the Product catalogue before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations.