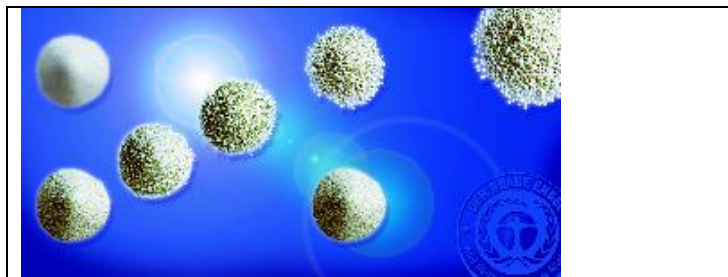


Poraver refines (construction) materials worldwide.

Poraver is the remarkable organic light weight aggregate made from 100% recycled glass. The round granules produced from a special manufacturing process are available in crushed gravel free quality from a microscopic 0.04 mm to 16 mm in diameter.

The Poraver series of benefits includes its very low weight and high compressive strength, excellent thermal and sound insulating properties, and resistance to chemical and alkaline attack. Moreover, Poraver is inflammable, weather-resistant, does not provide a breeding ground for bacteria and mould and prevents, due to its amorphous glass structure a silicosis hazard.



The special quality and characteristic features make Poraver the sought after light weight aggregate in products of nearly all sectors of the construction industry.

File name: Kugel_neu
Photo: Dennert Poraver GmbH.

From plaster, mortar, adhesives, fillers and massive wall blocks and solid wall systems to facade profiles, facades and sound insulation panels, structural wallpaper and decorative products, Poraver understands how to influence material and processing characteristics, product quality and the durability of its products in a positive way. In addition to the applications in the construction industry, Poraver has expanded in to the demanding market of products in the furniture, automotive and plastics industries.

With an annual production of about 35,000 tons Poraver, the Dennert Poraver GmbH, based in the Bavarian city of Schlüsselfeld, serves customers across the globe and is the world market leader in expanded glass light weight aggregates.

In addition to the expansion of production in Postbauer / Heng near Nuremberg Dennert Poraver GmbH promotes sales and licensing partnerships in all parts of the world. Thus, through the support of the Poraver headquarters in Schlüsselfeld the construction of a plant near Toronto, Canada came to fruition.

The first North American plant obtains a large part of the glass from the local glass recycling pick-up and converts it into the unique product Poraver, which is sold in Canada, the United States and Mexico.



The North American Poraver plant in Canada
The investment volume for the North American Poraver manufacturing plant amounted to more than 30 million EURO and created at the same time over 35 jobs for highly qualified local employees, in the province of Ontario

File name: PNA_4

Photo: Poraver-North-America

Poraver and its trading partners are currently in the following countries active: Australia, the Balkans, Belgium, Denmark, Estonia, Finland, France, Great Britain, India, Israel, Italy, Canada, Croatia, Latvia, Liechtenstein, Lithuania, Luxembourg, Mexico, Middle East, Netherlands, United States, Norway, Poland, Portugal, Sweden, Switzerland, Slovenia, Spain, Turkey, Ukraine, and Hungary.

For labeling the ecological responsibility and the high-quality mineral formulation, the Dennert Poraver GmbH created the Poraver Quality Seal for its customer's products. Products receive the Quality Seal label "with Poraver refined", so that manufactures and consumers get the full benefit of Poraver documentation, and the choice for an ecologically distinguished product promoting healthy living conditions is made easier.



Application examples:

Poraver improves adhesives and fillers

Better processing properties, higher yield and easier handling of the containers are criteria, which for the optimization of products such as adhesives and putty is given special attention. It is the choice of the aggregate that is an important quality criterion. Many manufacturers rely on the light weight aggregate Poraver, which precisely unites these qualities.

Fillers and adhesive mortars containing the mineral light weight aggregate Poraver are suitable for bonding and amoring of all kinds of insulation panels. Compared to conventional mortars such light mortars with a significantly lower weight prove very convincing. At the same time, they are usually about 30 percent more effective. With its low weight and high insulating properties these products are also excellent to smooth out unevenness and to fill in cavities. It can be manually processed as easily and as fast as mechanically with all major flow mixers and mix-feed pumps.



With Poraver enhanced light weight plasters have weight and processing advantages and are characterized by a specific yield.

File name: Putze-Anwendung
Photo: *Dennert Poraver GmbH*



Light weight masonry mortar containing Poraver is characterized by excellent insulation, elasticity, yield and ease of processing.

File name: Mörtel-Gräfix
Photo: *Dennert Poraver GmbH*



Tile adhesives containing Poraver are particularly productive, sticky and easy to handle. The experience of different manufacturers show that the grain sizes 0.1 mm to 0.3 mm and 0.25 to 0.5 millimeters give it a smooth consistency, and provide a seamless handling during the mixing and application of the adhesive.

File name: Platte-Fliese, Klebe_Spachtel_1
Photos: *Dennert Poraver GmbH*



For bonding and armoring of all kinds of insulation panels fillers and adhesive with the mineral light weight aggregate Poraver are suitable.

File name: Klebe_Spachtel_2

Photo: Dennert Poraver GmbH



Metapor wall filler

The innovative wall filler Metapor has two advantages: best building material and processing properties. Poraver developed on the base of the binder meta kaolin an innovative building material mixture for decorative coating of the interior wall surface area. The new wall filler combines best processing properties with absolutely new organic standards. For instance the Metapor wall-filler's white base colour allows for a user-defined dye or tingeing. It has humidity regulating features that are breathable, has a nice tactile surface and shows a very low shrinkage thus making it less susceptible to cracking.

Filename: Metapor_2

Photo: Dennert Poraver GmbH

Poraver ball allows luxury bathrooms to be finished in an XXL format.

129 prefabricated bathroom modules in the XXL format could be installed in the luxury hotel "Le Meridian " in Ireland's capital, Dublin, because the super light weight concrete with Poraver aggregate allowed the weight of the module to be below the specified 5-ton limit.

Critical to the deployment of Poraver are its excellent physical and pressure resistant properties. The expanded glass micro-spheres of Poraver are also characterized by excellent sound absorption and high thermal insulating properties while at the same time extremely light and maintain a high compression rating. Poraver has much greater strength than other aggregates in the same fill weight category.



The draft of the "Le Meridian," the 5-star-plus hotel in Ireland's capital, Dublin.

File name: Square

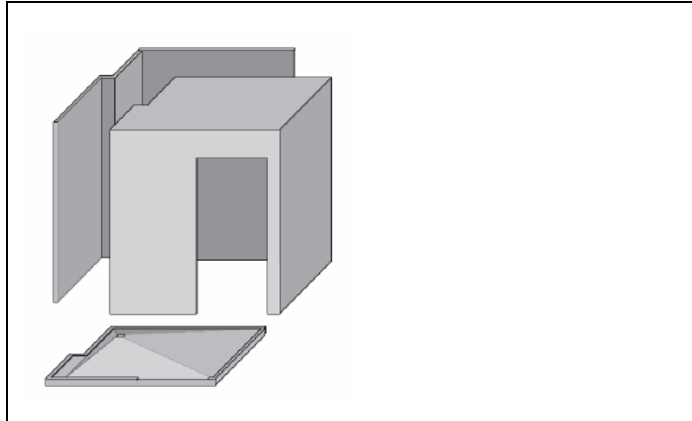
Graphics: Dublin Dockland Development Authority



Due to the special Poraver-light weight concrete matrix, 129 luxury prefabricated bathrooms in XXL format have been added, equipped with high-quality materials and objects.

File name: 03913RoBERO_365

Photo: Rasselstein Raumsysteme GmbH & Co KG



The AQUACEL prefabricated bathroom modules made from super lightweight concrete, containing Poraver aggregate, consist of only three parts: floor, wall and ceiling. The result is a light and extremely warp resistant cube.

File name: 001

Graphic: *Rasselstein Raumsysteme GmbH & Co KG*

poraFORM wall system

Even construction part manufacturers and domestic builders have discovered the advantages of Poraver as a light weight aggregate for their products. So the company "modern houses" is building its houses exclusively with the highly insulating poraFORM wall system. The wall system receives its positive features from the aggregate Poraver. By using Poraver the wall elements are extremely light, compression resistant, accurate to size, inflammable and do not provide a breeding ground for pests and fungi.

The light weight concrete poraFORM elements offer through their heat storage capacity a well-balanced room temperature. Because of their sheer size they save the thermal energy of the sun and that energy is given off slowly and gradually during the cooler night hours. This effect is called the phase shift and contributes actively in every season to a comfortable indoor climate similar to air-conditioning, but with no energy spend.



A new mansion - over 400 sq meters (4,305ft²) of luxurious living space were build in a short period of time thanks to the poraFORM wall system.

File name: Villa

Photo: Dennert Poraver GmbH.



In modern cement plants poraForm-wall system elements are produced according to drawings and than fully assembled at the construction site.

File name: poraFORM_montage

Photo: Dennert Poraver GmbH



Due to the special lightweight concrete wall elements houses in all shapes and sizes can be quickly and affordably built.

File name: modern_houses_1

Photo: Dennert Poraver GmbH

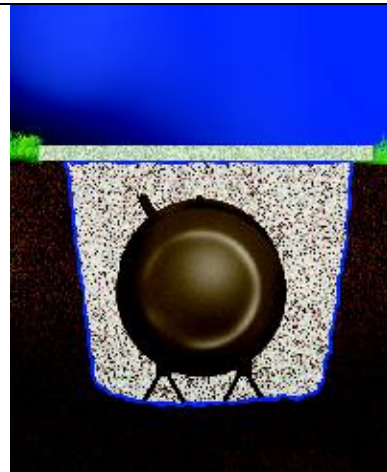
Fillings

Poraver fillings used for sound absorption and insulation can be loose, cement-bound or resin-bound. Even in the field of fillings Poraver has appeal with its diverse ecological and physical, chemistry of construction materials and structural static properties. Poraver loose fill is often used for filling in cavities indoors and outdoors, as a tank and subterranean tank insulation. Here Poraver captivates by the sum of its many positive features: low weight, moisture resistance, fiber-free, odorless and no material fatigue.



Easy handling and processing: Poraver as loose fill to fill in a wooden beam floor.

File name: Blockhaus_Boden
Photo: Dennert Poraver GmbH



For the insulation of underground tanks high demands are posed on the insulation material, which Poraver fully meets.

File name: Dämmschüttung-Tank
Graphic: Dennert Poraver GmbH

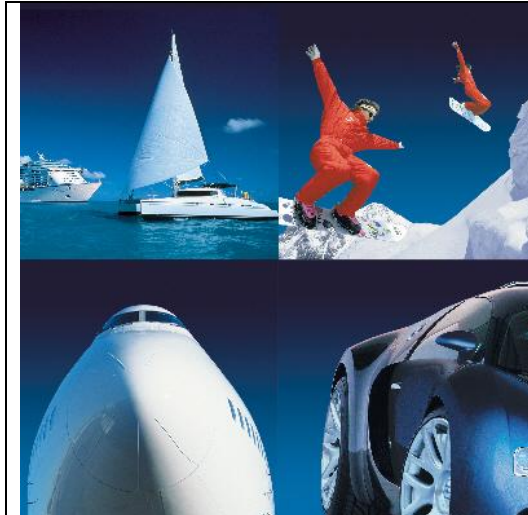


When storing solar thermal energy in subterranean and surface storage tanks Poraver has repeatedly proven to be an ideal insulation material as ongoing studies have confirmed.

File name: Solarplatten, 3 1 2 2 Becken
Photos: Dennert Poraver GmbH.

Poraver conquered the plastics industry as well

The unique lightweight aggregate Poraver with its numerous uses has increasingly captured the lightweight construction and plastics industry, due to the environmentally friendly material being as light as a feather, compression resistant, chemically resistant, free of pollutants and excellent for thermal and acoustic insulation. The combination of mineral foam composite materials with expanded glass represents a new class of materials, which is particularly interesting for crash absorption, transportation, and generally for lightweight components.



The lightweight filler Poraver optimizes numerous plastic applications.

File name: Kunststoffe_1

Photos: *Dennert Poraver GmbH*

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