nestaan

Quality insulation with a personal touch

Nestaan Holland B.V.
www.nestaan.nl

Nestaan Holland

Nestaan Holland is a family business, founded in 1968 and is specialized in the development and production of rigid polyurethane foam blocks and two-component systems. Our high-quality polyurethane products can be used as insulation, in modelling and for castings, and they can be sprayed, injected or used as adhesives.
Alongside our standard products we also develop custom solutions for highly varied applications in collaboration with our customers. For more than 40 years our many customers at home and abroad have built their success on our products.

Polyurethane, the multi-use plastic

Polyurethane can be manufactured in a huge variety of forms, ranging from solid non-foam material to low density foam. It is created by mixing two raw materials, a polyol blend and an isocyanate. Small quantities of additives are used to obtain the exact properties required. Where a foamed material is required for example, a blowing agent is used to create a closed cell structure, delivering excellent thermal insulation properties.

Polyurethane is widely used to provide insulation in buildings (in roofs, under floors and in cavities) and in the transport sector (bulk transport, containers and refrigerated vehicles). Polyurethane foam is also much used in industry (façade panels, cooling cells, warehouses, tank insulation), in shipping (insulation of compartments and to increase flotation) and in the home (refrigerators, mattresses, boilers).

Quality insulation with a personal touch

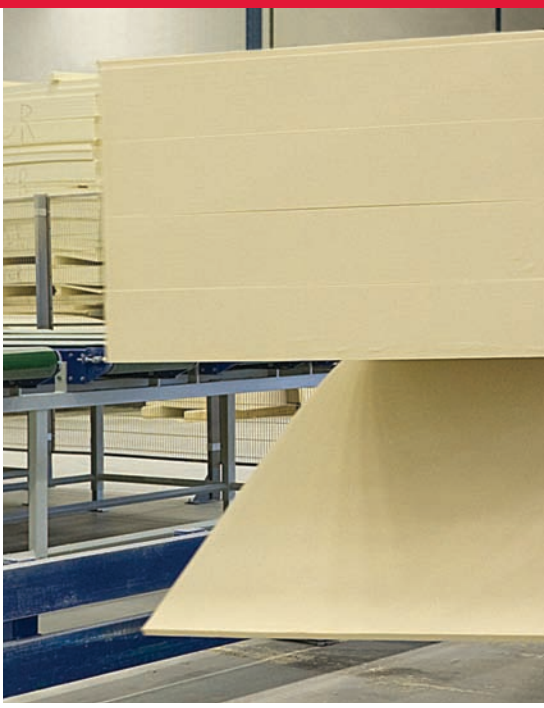
Here at Nestaan we are proud of the reputation we have obtained for the development and manufacture of top quality products. We maintain our high standards by means of stringent quality inspections throughout the production process, from the receipt of raw materials right through to the transportation of the finished product. We also set high quality standards for our staff. Their extensive technical expertise and vast experience equips them to deliver products of the highest possible quality as well as developing entirely new products in collaboration with clients.

Technical support

Our laboratory has a central role in assessing incoming and outgoing raw materials and products using strict standard procedures. All data is catalogued to assist us in achieving consistent quality. This superbly equipped laboratory is also available to you for technical support. A second crucial task for the laboratory is the development of new products and innovative improvements to our existing range.

Nestaan blockfoam

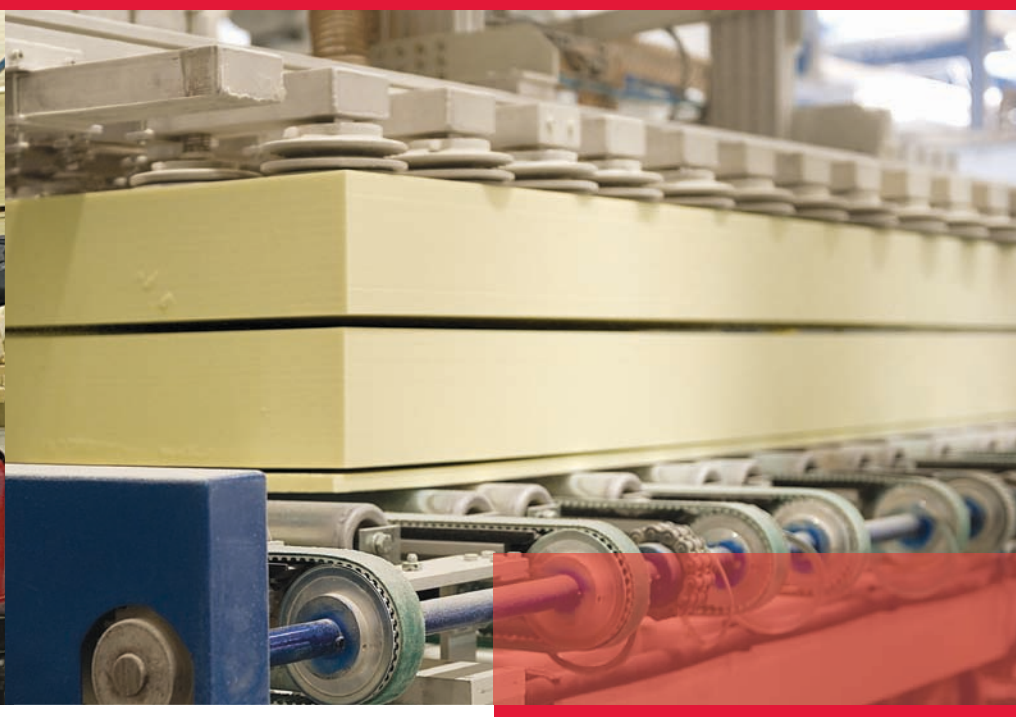
At our Tholen plant we use the very latest continuous production techniques to manufacture polyurethane (PUR) and polyisocyanurate (PIR) blockfoams. Computer controlled machines are used to process the blocks to create sheets and specials.



Polyurethane (PU) is a plastic invented during the 1930s. Polymers of various kinds are bound together chemically via urethane bonds using a polyaddition reaction. This results in a multiplicity of possibilities to modify the characteristics of the final product, such as rigidity, hardness, chemical resistance and so on. The further development of PU foam now offers almost unlimited possibilities.

Nestaan rigid blockfoam is used in sandwich panels, cold store and refrigeration, coach building, shipbuilding, technical insulation, polyester products and moulding, as well as innumerable other applications.

We are in a position to produce polyurethane in a wide range of dimensions, clearing the way to a great diversity of applications. For example



we can deliver products in thicknesses ranging from 10 mm to 800 mm. As well as standard sizes we also deliver materials to client specifications. Further possibilities are created by the varying densities in which foam blocks can be produced, anything from 30 kg/m^3 to 200 kg/m_3. Finally the materials can be manufactured to meet different fire safety classifications. Nestaan rigid blockfoam is characterised by its high insulation value combined with outstanding mechanical properties. Nestaan also continuously invest in new technology, allowing us to keep pace with our clients' increasingly strict and demanding requirements.

Nestaan two-component systems

As well as foam products Nestaan also develops and manufactures two-component systems, developed entirely in our own laboratory. These systems, consisting of the components polyol and isocyanate, can be found in use in all conceivable market sectors and all around the world.

Our extensive technical expertise and experience built up over decades has led to standardised systems available from stock to cover the most common applications. At the other end we also work together with customers to put together two-component systems for the most highly specialised individual applications.
We can offer PU system in countless variants, with the difference found primarily in the processing methods, the blowing agents, the reaction profile, density, the open or closed cellular structure (as well as non-cellular structures) and rigid or flexible formats. There are also variations in the fire behaviour, mixing proportions and insulation values of the finished products.

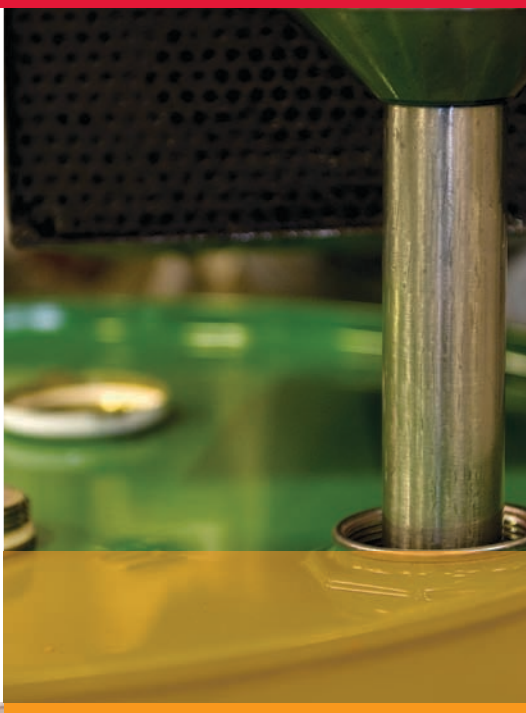
Spraying

When used for spraying the Nestaan two-component system is sprayed at high pressure as a closed liquid film, which foams up in a few seconds to create a homogeneous insulation layer. This method is mainly applied to create seamless insulation for floors and roofs and as insulation for tanks and similar items. The material's outstanding adhesive strength allows it to adhere to most surfaces.

Our widely respected spray system for floors finds applications in both new-build and renovation work. Insulating foam can also be applied above or below floors. The primary role of these polyurethane foams is to counter heat loss, but they can also be invaluable in dealing with damp problems in floors with a crawl space below.

Pouring

Nestaan polyurethane pouring system exists of two components, developed to fill certain cavities. In many cases these pouring systems are processed using dedicated high or low pressure machinery. A mould is used to create the pouring form in most cases. The ease of use of polyurethane facilitates the application of moulds in highly diverse forms and dimensions. Typical applications include pipe-in-pipe insulation, panel filling and the insulation of refrigerators.



Adhesives

All Nestaan two-component adhesive systems are solvent-free. This cuts out the need for drying time, while the local reaction of the two components causes strong adhesion between two substrates.

We supply adhesive systems for use as pouring systems in continuous processes or for manual processing, and our range also includes sprayed adhesive systems.

Cavity walls

In cavity wall insulation a layer of insulation is injected between the inner and outer walls. This form of insulation retains heat within the building and protects the structure against penetrating cold, draughts and damp from outside. It is also one of the most efficient ways of saving energy.

The useful lifespan of polyurethane cavity wall insulation significantly exceeds that of several other insulating materials. Polyurethane insulation does not collapse, shrink or crumble, so that it retains the same insulating properties throughout the entire lifespan of the building.

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ISO 9001

BUREAU VERITAS
Certification

N° NL9000792

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