



Bring out the comfort of your
space with nora[®] rubber flooring

nora[®]
by **Interface**[®]



The construction of the Frankfurt airport (1969 -1972) was the breakthrough for nora® studded rubber flooring. It was the birth of a classic: the “stud” became famous – even internationally.

Today we can look back on more than 70 years of expertise in the manufacture of rubber floor coverings and system solutions. Floor coverings made of rubber were produced for the first time in 1950. The secret to manufacturing the extremely robust, yet elastic floors: the right mix of rubber, natural minerals and environmentally-friendly color pigments.

The nora® brand was named after the inventor of the rubber formulation, the chemist Dr. Walter Nürnberger (lat. “Norimbergensis”). We develop, produce and market high-quality, elastic flooring and stair treads, as well as accessories, under this brand name. Our norament® and noraplan® product lines stand for “Made in Germany” quality around the world – naturally made of rubber.

At nora, you as our customer are always our first priority. You can achieve outstanding results for your unique rubber flooring project because we are here to help you. From specification support, to on-site installation supervision by our technical experts, to exceeding after-sales service – nora is at your site in every step. By sharing our specialized knowledge with you, we can help you make the best choice for your individual project.



nora[®] floor coverings: Naturally made of rubber

The Properties

nora[®] floor coverings are made of high-quality natural and industrial rubbers. They are mixed with minerals from natural sources and other components, such as environmentally compatible color pigments, pulled into blanks, pressed and then vulcanized under heat and high pressure. Thanks to the material's elastic properties, our floors do not require **phthalate plasticisers**.

The subsequent crosslinking with nora cleanguard[®] in the factory makes the **surface dense and closed**, without using any film or varnish. That is why they will **never need to be coated** and still look like new after many years of use.

...and the advantages

Environmentally and health-compatible

- Flooring made of high quality industrial and natural rubber qualities, natural materials and environmentally-compatible color pigments
- free of PVC, phthalate plasticisers and halogens
- nora's products are low-emission and contribute to a healthy indoor air.

Extremely hard-wearing and very durable

- Maximum wear resistance
- Maximum compressive strength (up to 6 N/mm²)
- Particularly low indentation behavior

Safety, comfort and design for well-being

- Particularly high walking and standing comfort
- warm to walk
- Contribute to pleasant room acoustics (impact sound reduction up to 20 db, significantly reduced footfall sound)
- Slip-resistant, even when wet (up to anti-slip category R11)
- The nora rubber floor coverings are flameretardant, as defined in EN 13 501, and offer high safety in the case of fire.
- Extensive range of designs and colors

Simple and economical to maintain

- Easy to clean, no coating needed
- No joint-sealing required
- Optimum hygiene
- Cigarette burn resistant
- Resistant to moisture, flooring does not swell when wiped with too much water

Excellent quality: Environmentally and health-compatible

nora systems is among the leading companies in its sector when it comes to the environment and sustainability. The production methods of our nora® products are internationally certified and are regularly tested by independent institutes. nora systems was the first product of resilient floorcoverings to provide the so-called environmental product declarations (EPDs), nora rubber floor coverings are **free of PVC, phthalate plasticisers and halogens**.



Hardwearing and durable

nora® rubber floor coverings are **extremely robust**. They have a service life of more than 30 years. They have an **enormous compressive strength** of up to 6 N/mm². nora® rubber floor coverings thus perform impressively in high traffic areas and wherever the floor is subject heavy loads, such as in industrial plants.



Many colors and designs: For a harmonious interior design



© Andrea Lhotakowa

As they cover a proportionally large area, floor coverings have a significant influence on the overall look of a room. As nora systems offers a broad product line, the sky is the limit when it comes to creative design. The diverse **range of colors and designs** can be used to create an atmosphere of well-being that visibly enhances the room. You can even implement **special designs** that are specifically tailored to suit an individual color scheme. Patterns, games or guidance systems can also be included in the flooring as **inlays**. **Tailored stair treads** and **tailor-made flooring accessories** round off the overall impression and ensure harmonious interior design.



Safety and ergonomic comfort



© Thomas Goos

nora® rubber flooring generate very little noise, thus providing for a **quiet, pleasant atmosphere in the room**. Special acoustic coverings with an additional layer of insulation also ensure increased impact **noise dampening of up to 20 db** and even more walking comfort.

nora® floor coverings **offer high walking and standing comfort** thanks to the spring-back properties resulting from their high elasticity. They are easy on your body when long standing and walking times are required. Studies have shown that nora® floor coverings compensate for stresses on the human body significantly better than do hard floorings such as stone. Moreover, nora® floor coverings offer **protection through non-slip properties**. For areas that make particularly high demands on slip resistance, we also offer qualities from the classes R10 and R11. nora® floor coverings are also pleasing to the touch and pleasantly **warm to walk**.



© Dirk Wilhelmy

Easy and economical to clean: For a lasting high-quality appearance



Thanks to their extremely dense and closed surface, nora[®] rubber floor coverings are extremely wear-resistant, **easy to clean** and never need **any coating**. They are also dimensionally stable and can be installed **without** any unsightly and cleaning-intensive **jointing**. They contribute to a lasting high-quality appearance in buildings and are thus an economical and reliable investment.



Photo above and at right © „arus gmbh willi latz | Photographer Norbert Miguletz“

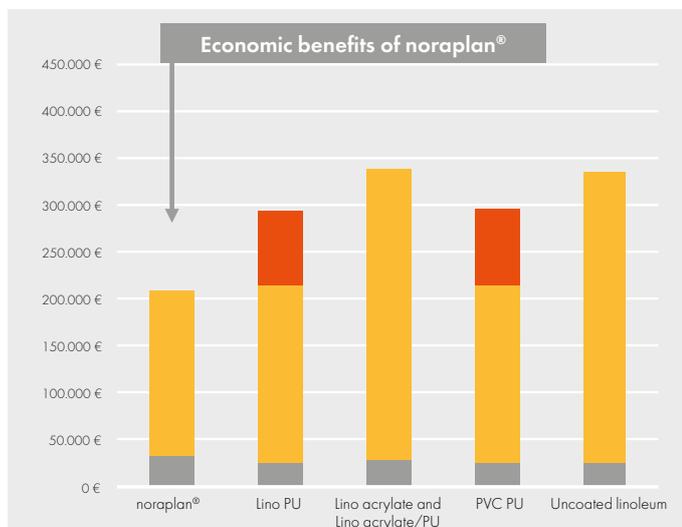
Life cycle costs

Initial costs by choosing a new flooring are only one element out of the complete calculation. Investing in a new flooring should always take a minimum time period of 15 years in account. Even when nora[®] floor coverings in general do last much longer we provide a comparison regarding the different flooring materials. Since the time and cost spent on cleaning and care are very low because of the minimal dirt accumulation, our nora[®] floor coverings are extremely economical over the years of use compared against rival coverings. In the long term, maintenance costs exceed the costs of the acquisition many times over with all kinds of floor coverings. Economic viability calculations show the benefits of the coating-free cleaning of our nora[®] floor coverings.

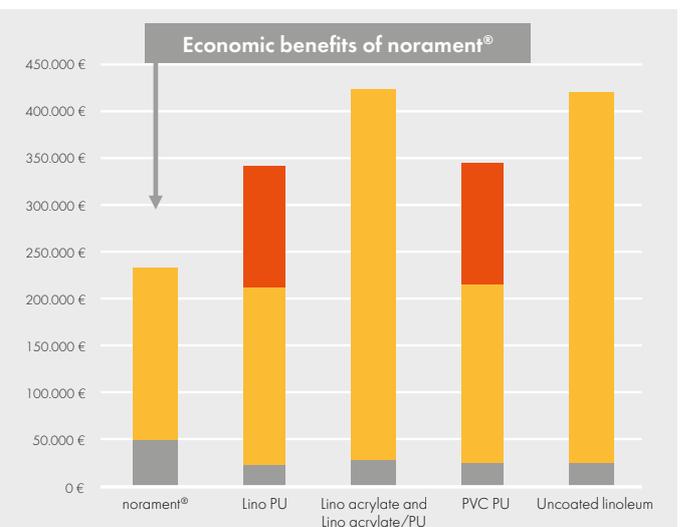
Economic efficiency comparison of nora[®] rubber floor coverings, linoleum and PVC.

LCC comparison: | Assumed cleaning scenario for an area of 1,000 m² over 15 years.

LCC comparison: noraplan[®]



LCC comparison: norament[®]



Investment (Grey) | Operating and maintenance costs (Yellow) | Surface refurbishment costs (Red)

noraplan[®]: typical scenario for areas with moderate strain, for example in nursery schools.
norament[®]: typical scenario for areas with high levels of dirt contamination and mechanical strain, for example in school foyers.

Source: nora systems GmbH

nora[®] nTx – The new generation in flooring installation

nora[®] nTx is a new and unique technology for the installation of nora[®] rubber floor coverings by professional floor-layers.

Ingeniously simple – nora[®] nTx brings its adhesive strength along from the factory. The flooring is cleanly and safely installed in only a few steps and immediately ready for use. And this can be done on the usual concrete or cement screed substrates as well as on other existing floor coverings. Even high residual moisture in the screed is not a problem for nora[®] nTx.

The challenges of conventional processing, such as applying the correct amount of adhesive, sufficient wetting as well as drying and waiting times before and after laying are a thing of the past. And the result is as durable, robust and safe as you are accustomed to from nora[®] floor coverings. No other rubber

flooring offers so many time and cost savings for the floor-layer and the building occupants. And all that from a single source.

nora[®] nTx is available for the products noraplan[®] sentica, signa, unita, eco and stone as well as norament 926 grano, satura and arago. To ensure clean and safe substrate preparation, you are supplied with installation materials and tools made by nora.



Market segments & projects

Living projects

Whether on the high seas, under the feet of tens of thousands of passengers in the New York subway, in the Chinese Pavilion of Expo 2010, the Guangzhou Opera House, in the operating theater of numerous hospitals or in the kindergarten next door: people around the world come into contact with nora floor coverings every day. And each project is unique - the demands on the design and technical properties of our products are determined by the different types of buildings. As well as by the innovative spirit of our customers.

Health Care



Become healthy and stay healthy with floor coverings that fulfill medical, hygienic, safety-related and economic requirements. And they're aesthetic as well.

Education



Creating healthy living space for younger and older students with a future. Aimed at promoting good air.

Industry



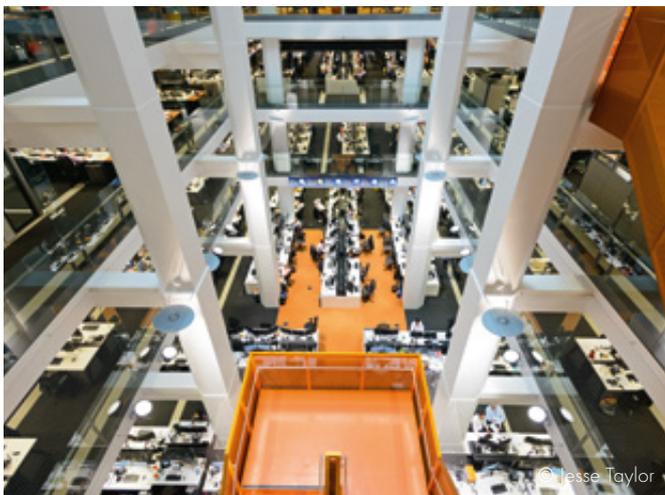
Industrial floors are all-demanding. nora rubber floor coverings present the evidence.

Public Buildings



Everything in motion. In public buildings, functionality comes face-to-face with aesthetic design - it's good if the floor covering is not left out.

Shops & Stores



Those seeking attention need the right stage. We prepare the way for it.

Transportation



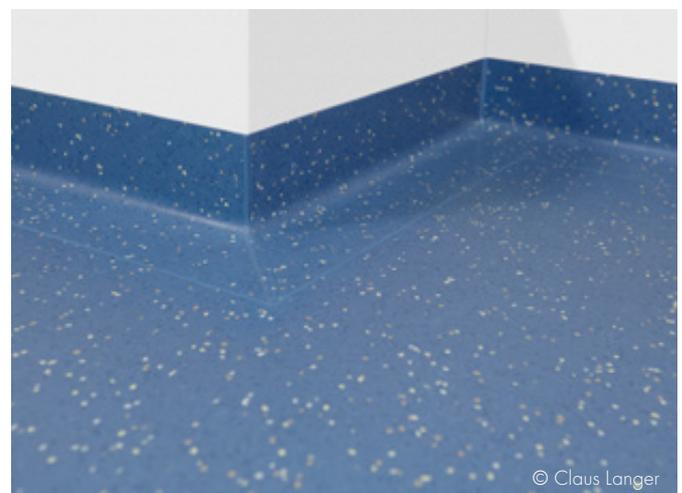
Standing firm before the masses: nora floor coverings for ships, coaches and rail operators pass the stress test.

Stair Solutions



We satisfy individual need in stairwells with tailor-made solutions.

Rubber Flooring Accessories



We offer you a matching range of rubber accessories for norament® and noraplan® floor coverings which can also be used in combination with other kinds of flooring.

Cover picture: © nora systems

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