



UPdate

EDITION 13

PSS INFORMATION

The invisible^{*} protective film – the reversible network of Nature

PSS 20 – proven over 15 years
more than 6.000.000 m² protected in Europe

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PSS 20 – The surface protection system on the basis of polysaccharide. The leader in Europe over the last 15 years. This protective film, which is indiscernible to the eye, has already been applied to an area of more than six million square metres. This includes both modern and famous historical buildings and structures.

* invisible – a three-dimensional molecular grid structure on a polysaccharide basis forms a film that is indiscernible to the eye.

Colour your world!

With *faceal colour* - the semi-transparent concrete glaze - constructive design in concrete construction becomes a reality. *faceal colour* protects the concrete from external influences such as pollution, and its pigmentation creates a homogeneous appearance. The typical appearance of the mineral surface is maintained, and a wide range of colour design is possible through the colour pigments.



Colour determination hand-in-hand with science



faceal colour is available in both standard and special colour variations.

The standard colours consist of the concrete-grey spectrum together with certain selected colours. Many options are thereby already available for a design solution.

Over and above this, *faceal colour* can be applied in a pigmentation formula specifically designed for the object in question, i.e., an individual colour can be created. This is based on a scientific approach, which is determined by various parameters: For example, the condition of the surface before treatment, the *faceal colour* pigment formula and the application process, as well as the light conditions and the subjective impression of the observer.

The surface that is to be treated is thereby analysed using a spectral colorimeter or a pseudo-colorimeter process via digital image analysis. The building owner or architect selects his desired colour on the basis of international standards such as RAL, or provides this in the form of a sample of the original surface. The formula for the *faceal colour* is then calculated using a model for the calculation of the physical parameter.



The so-called opacity parameter is also agreed between PSS and the architect or building owner.

To put it briefly, this factor defines the colour differences resulting from the non-homogeneity of the surface properties of the fair-faced concrete. Thanks to this scientific approach for the determination of pigmentation formula, time consuming sampling is avoided.

The multi-functional concrete glaze

The *faceal colour* long-term impregnation has been developed on the basis of Nano-technology. Its unique molecular structure has a range of outstanding product features.

faceal colour – the pigmented version

The concrete glaze can be coloured in different shades, thereby retaining the liveliness of the mineral surface of the fair-faced concrete.

faceal colour – oleophobic and hydrophobic

The starting point for the oleophobic and hydrophobic principle is the surface tension. With the *faceal colour* impregnating concrete glaze, the surface tension of the concrete is reduced well below that of contaminating liquids. The result: the contaminating liquids can no longer penetrate the impregnated concrete.



faceal colour – the water vapour-permeable concrete glaze

The long-term impregnation *faceal colour* offers a water vapour-permeable, hydrophobic surface protection. Unlike other concrete coatings that form



an impermeable film, the inclusion of water vapour, the risk of the formation of bubbles and the cracking of the coating are thereby avoided.

faceal colour – concrete cosmetics and concrete protection

faceal colour is semi-transparent, i.e. it is not an opaque coat of paint. This means that the irregular sub-surface shows through. In addition, the visible result also depends on the lighting, the subjective evaluation of the observer, and on the environment.

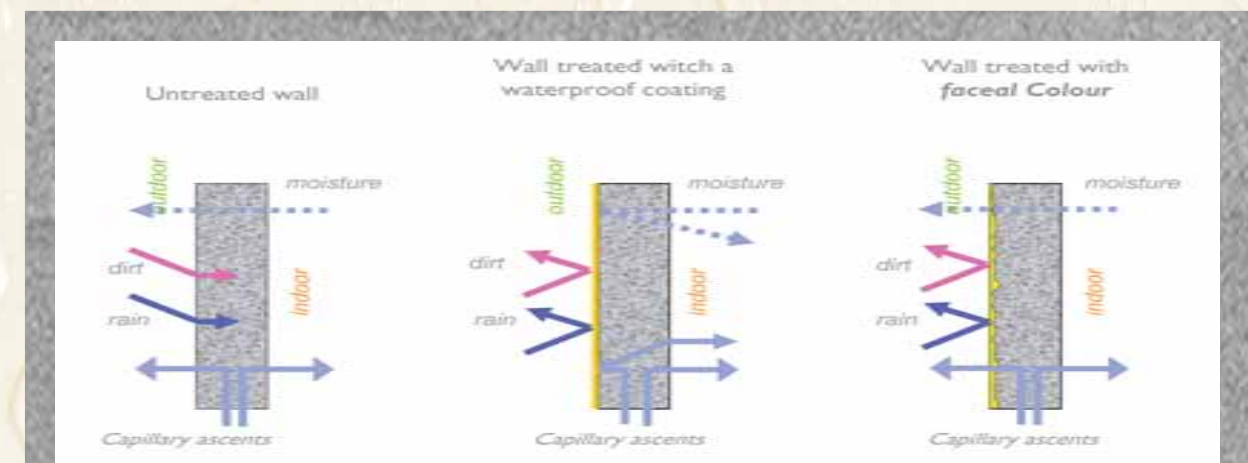
With *faceal oleo*, excellent surface protection and, in combination with the pigmentation, individual colouration is made possible using a single product.



Ask for our brochure with more information!

For more information, simply request the 8-page PSS brochure "Concrete. Constructive Design.", free of charge. In this brochure, the scientific discoveries, the latest innovations with regard to the

faceal colour concrete glaze product, its application and its colour determination are described in detail.



News from various countries!

Denmark: Regularly inspected and always free from graffiti! – thanks to PSS 20.

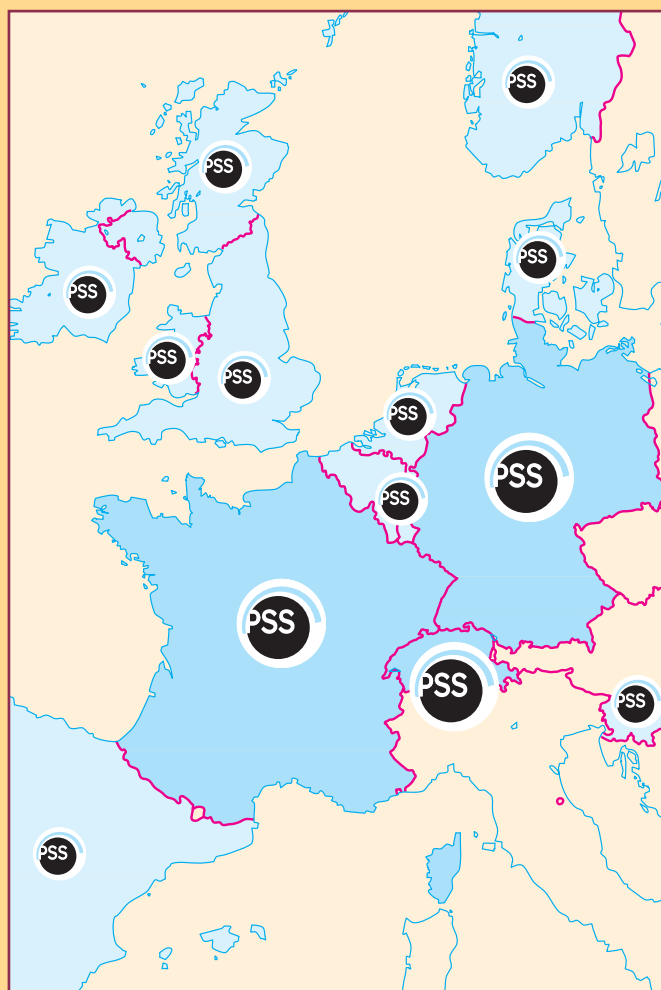
The historic "Regensen" building complex lies in Copenhagen. A significant feature is the arched passageway with its old clay-brick walls. The entire brickwork is protected with the PSS 20 sacrificial layer system that is undetectable to the eye, and is inspected every week. Graffiti attacks are then immediately removed together with the protective film and PSS 20 is then reapplied at these locations. In this way, this historic facility always remains clean and, above all, the old substrates are safe from irreparable graffiti residues.



Switzerland, Germany, France: 15 years of polysaccharide technology – 15 years of PSS!

15 years of polysaccharide technology also means 15 years of the PSS Interservice Group. PSS Interservice was founded in

1991, with its Swiss head office in Geroldswil, near Zurich. From the very start, PSS 20 was the key technology for the PSS Group. As the company developed, PSS expanded its portfolio, and today, for example, nano-technology is a very innovative field. The PSS Interservice Group now has its own branches in France (Maisons-Alfort) and Germany (Berlin and Siegburg) and ensures a professional and responsible application using its own application teams. In order to ensure a comprehensive and service-oriented coverage of the market, PSS works together with trained, specialist partners, on a regional basis in Germany and France, and on a national basis in many other countries. The PSS Interservice Group will be celebrating its 15-year jubilee this year.



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