



protecting. colorizing.
optimizing. **In construction.**

Technical Data Sheet

PSS 20

Unique graffiti, surface and construction phase protection


- fully reversible
- visually invisible
- water-based

Ecologically - based on polysaccharide technology


RAL-GZ 841 / 2 certified and BAST homologated graffiti protection system




Product description

 **PSS 20** is a reversible protection system against graffiti scrawls and the soiling caused by the posting of placards and posters, and contaminants from the air (CO₂, soot, etc.). PSS 20 consists of vegetable polysaccharides and water and has a high viscosity. The components in PSS 20 are assigned the E numbers used in the food industry. Correspondingly, PSS 20 does not pose a hazard to humans, animals and the environment. PSS 20 is sprayed on the wall in one or several layers with an airless device and when it has dried, it forms a very thin and usually unobtrusive protective film on the surface which is completely breathable. PSS 20 CLEAR is the clear version of PSS 20 and is used most notably on very shiny surfaces, so as to avoid creating a glossy haze. PSS 20 is only processed by trained experts. The PSS surface protection technology is protected worldwide by a patent.

Characteristics

 PSS 20 is non-flammable. When it decomposes through a heat process, it does not produce any toxic gases. Fully reversible with hot water. Regarding its reactive properties, highly alkaline conditions are to be avoided. PSS 20 normally only impairs the noise absorption capacity of noise barriers to an insignificant extent (Test Deutsche Bahn, FT Centre Munich, 20.02.98). PSS 20 is compatible with a wide variety of substrates; the corresponding tests have been carried out over many years in cooperation with the corresponding manufacturers; the results of these tests can be provided as required.


Areas of use

 PSS 20 can in principle be applied to all wettable substrates. PSS 20 is used on facades and walls, both indoors and outdoors. In the case of water-repellent (e.g. hydrophobic) substrates, the surface tension must first be reduced and, if necessary, the surface should be treated first with the PSS PRIMER. PSS 20 should only be used on vertical surfaces. PSS 20 is especially suitable for all kinds of natural and artificial stone façades, clinker bricks, concrete, brick, metal and aluminium facades.

Technical data

1 pH value:	6.0 ± 7.0
3 VOC:	0 g / l
Appearance:	slightly cloudy liquid
Viscosity:	6,000 – 7,200 cpa
Boiling point:	100 °C
Specific weight:	1.0 – 1.1
Water vapour permeability according to DIN 52615 (EMPA test No. 155194 of 06.10.94):	Sd value 0.012 m
Carbonation Resistance (LPM Building Material Test Laboratory, Test No. A-13'041-1 from 18.03.93):	good retarding effect, similar to a concrete glaze

Processing


 Before applying PSS 20, substrates must be cleaned of all dust, oil, grease and silicone. Absorbent substrates must be thoroughly pre-wetted so that no, or as little as possible PSS 20 can penetrate the substrate. Non-absorbent substrates must be dry when the PSS 20 is applied. The PSS 20 is normally applied with an airless device (spraying without air) at a pressure of between 100 and 200 bar. The PSS 20 must not be processed below +5°C (external and substrate temperature), as there is a risk that the PSS 20 film will freeze on the surface before solidifying.

Graffiti removal


The graffiti on the PSS 20 protective film can easily be removed with just hot water and no chemical agents. It can be removed either by using a standard high-pressure hot water lance fitted with an adjustable fan nozzle, or on smooth surfaces, with a suction type cleaner in which the applied water is immediately vacuumed off. The water temperature should ideally be between +60 to +70°C. The water pressure must be adjusted to suit the surface in order to avoid any damage. The water pressure should be set at under 20 bar for soft substrates. The PSS 20 protective film is peeled off along with the graffiti. The graffiti is no longer etched in and can be easily taken off and disposed of in its solid state.

Further processing details can be found in the PSS Interservice technical manual for processors, which is provided during the training session.

Consumption / Yield

 Between 0.20 and 0.60 l/m² is needed for as graffiti protection, between 0.10 and 0.20 l/m² as a guard against dirt, depending on the porosity and structure of the surface.


Cleaning the equipment

 The equipment is cleaned with water. The airless device must be rinsed with water at least once a week.


Container sizes

 Containers of 25 litres.

Storage

 PSS 20 and PSS 20 CLEAR are produced according to ISO 9001. Both products are water-based and therefore should not be allowed to freeze when in the liquid state. This is especially important during transportation - also in the service vehicle - and when in storage. The containers are sealed and marked with the production number. Each production unit is tested before it is despatched and only released if all the test values are complied with. PSS 20 can be stored for 2 years from the date of manufacture without a problem. It should be stored in a dry room at temperatures between +5 and +20°C. The PSS 20 containers must not be opened in damp rooms.

Health and safety

 PSS 20 is slippery when moist. If PSS 20 drips on the floor, it must be cleaned up immediately or washed well with water. The information contained in this technical data sheet is based on our present knowledge and experience. Due to the variety of possible influences during the processing and application of our products, the user is responsible for carrying out the necessary tests and trials on site. No legally binding guarantees of certain properties or the suitability for a specific application can be derived from the specifications contained in this technical data sheet. The user of our products is solely responsible for complying with existing laws and regulations.

Note: The corresponding safety data sheet of the respective product must be observed. In the absence of technical support, please contact PSS Interservice AG.