

# PSS 20

## Graffiti protection system

March 2024

### PRODUCT:

PSS 20 is a reversible protection system against graffiti and bill sticking marks, also against airborne contamination (CO<sub>2</sub>, soot, etc.) for facades and walls, indoors and outdoors. PSS 20 comprises vegetable polysaccharides and water and has a high viscosity. The components of PSS 20 carry the E-numbers used in the foodstuffs industry. Accordingly PSS 20 is absolutely harmless to man, animal life and the environment.

PSS 20 is sprayed on to the wall in one or more coats with an Airless appliance, where on drying it forms a gossamer-thin protective film, normally invisible to the naked eye and creates a fully breathing type coating. PSS 20 clear is the clear version of PSS 20 and is used especially on high gloss substrates to prevent clouding effects. PSS 20 is applied only by skilled tradesmen who have received the appropriate training. PSS surface protection technology is fully patent protected world wide.

### SUBSTRATES:

PSS 20 can in principle be applied to all wettable substrates. In the case of water repellent substrates (e.g. those treated with hydrophobic agents), the surface tension must first be reduced and where necessary pre-treatment with the PSS primer carried out. In principle PSS 20 is only to be used on vertical surfaces. PSS 20 is especially suitable for all kinds of natural and artificial stone facades, clinker, concrete, brick, metallic and aluminium facades.

### PRODUCT PROPERTIES:

Property	Value
Appearance	Slightly cloudy liquid.
pH	6.0-7.0
Viscosity	6000-7200 cpa
Boiling point	100°C
Specific weight	1.0-1.1
Flammability	Non flammable.
Water vapour permeability (according to DIN 52615)	Sd-value 0.012 m (EMPA-Test No. 155194 of 06.10.94)
Carbonisation	Good retardant effect, similar to a concrete glaze (LPM Construction materials test lab., Test No. A-13'041 of 18.03.93).
Reactivity	High alkaline conditions are to be avoided.
Totally reversible by means of hot water.	
No toxic gases produced on decomposition by heat.	
PSS 20 normally only impedes the sound absorption capability of noise protection walls to an insignificant degree (Test Deutsche Bahn, FT-Centre Munich, of 20.02.98)	
PSS 20 is compatible with the most diverse substrates; appropriate tests have been carried out over several years, jointly with the relevant producers; the results are available where required.	

### SUBSTRATE PREPARATION:

Before applying PSS 20, substrates must be cleaned and free of dust, oil/grease/silicon contamination. Absorbent substrates are to be thoroughly pre-wetted in order that no, or as little as possible PSS 20 can penetrate the substrate. Non-absorbent substrates must be dry before applying PSS 20.

### APPLICATION METHOD:

PSS 20 is normally applied using Airless appliances (spraying without air), at a pressure of between 100-200 bar. Quantities of between 0.20 and 0.60 l/m<sup>2</sup> for use as a purely soiling protection, depending on the porosity and texture of the surface.

PSS 20 is not to be applied at temperatures below 5°C (outside temperature and substrate temperature), otherwise there is a risk of the PSS 20 film freezing on the surface before its transition to the solid state.

# PSS 20

## Graffiti protection system

**March 2024****GRAFFITI REMOVAL:**

Graffiti on the PSS 20 protective film can be easily removed with hot water, without the need for chemicals. Removal can take place 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 60-70°C. To avoid damage, the water pressure should be adapted to the surface. On soft surfaces, a pressure of less than 20 bar is recommended. The PSS 20 protective film is peeled off together with the graffiti. As the graffiti is no longer etched, it can be easily collected and disposed of in the solid state.

**CLEANING TOOLS AND EQUIPMENT:**

These are cleaned with water. If in constant use, the Airless appliance is to be flushed through with water at least once a week.

**HEALTH AND SAFETY:**

PSS 20 is slippery in the moist state. Any PSS 20 spilt on to the ground must be immediately removed and the ground thoroughly washed down with water.

**MANUFACTURER, TRANSPORT AND STORAGE:**

PSS 20 and PSS 20 clear are manufactured according to ISO 9001. Both products are water-based and are therefore not to be allowed to freeze when in the liquid state. This is especially important during transport - also in the Service vehicle - and during storage.

PSS 20 is supplied in containers of 25 litres. The containers are sealed and marked with the production number. Each product unit is tested prior to dispatch and only released if all test values are complied with. PSS 20 can be stored without problems for 2 years from the date of manufacture. Storage is to take place in dry rooms at temperatures between 5 to 20°C. The PSS 20 containers are not to be opened in damp rooms.