

## PSS 20 and PSS 20 CLEAR

### PRODUCT DESCRIPTION AND AREAS OF APPLICATION:

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 worldwide.

### 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:

- 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
- No toxic gases produced on decomposition by heat
- Water vapour permeability: according to DIN 52615: Sd-value 0.012 m (EMPA-Test No. 155194 of 06.10.94)
- Carbonatization: good retardant effect, similar to a concrete glaze (LPM Construction materials test lab., Test No. A-13'041-1 of 18.03.93)
- Totally reversible by means of hot water
- Reactivity: Highly alkaline conditions are to be avoided
- 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.

### PROCESSING INSTRUCTIONS:

- 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.
- 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> are required when using the product as a graffiti protection and between 0.10 and 0.20 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.

**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.

**Further details on processing are contained in the PSS technical manual for processors, which is issued to those attending the training course.**

**CLEANING TOOLS & 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.

**SAFETY INFORMATION:** 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.

**MANUFACTURE, TRANSPORT, 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 5 or 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 of between 5 to 20° C. The PSS 20 containers are not to be opened in damp rooms.

*The information given in this technical data sheet is based upon our present knowledge and experience. Because of the wide variety of possible influences during processing and in the use of our products, it is the responsibility of the processor to carry out himself the necessary tests and trials on site. No legally binding guarantees for certain properties nor the suitability for a concrete application can be derived from the technical data sheet. Existing laws and regulations must be complied with by processors of our products on their own responsibility.*