

SONDERHOFF FERMAPOR DD980

Single-component PVC plastisol for the production of heat-curing, soft-elastic foam seals



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Good reasons for SONDERHOFF FERMAPOR DD980

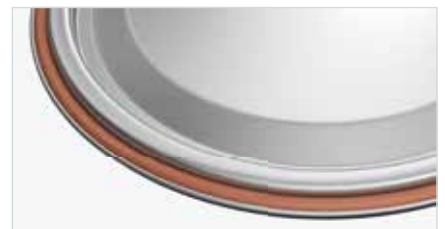
1. ... offers exceptional protection by sealing metal packaging lids against leakage or contamination of packaged goods, even in the event of falls, impacts or vibrations.
2. ... meets the UN-approved tightness requirements for the transport of hazardous goods (depending on a suitable container design for it).
3. ... is phthalate-free for food packaging in accordance with EU regulation No. 10/2011 and the German LFGB (acc. to §§ 30 and 31 part 1 of the food and fodder laws), judged by the guidelines of the EFSA (European Food Safety Authority).
4. ... has a very good resistance to many chemicals, such as solvents, coolants and cleaning agents, alcohols, hydrochloric and nitric acid, and ammonia gases.
5. ... has a very low water absorption of <1 %.
6. ... displays excellent adhesion to inner-lacquered drum lids and jagged lids made of tinplate, black plate and steel.
7. ... is adjustable to different hardness grades.
8. ... is characterized by savings of material, weight and cost, due to its very low density.



SONDERHOFF FERMAPOR DD980
for can lids



SONDERHOFF FERMAPOR DD980 (red)
for inner-lacquered can lids



SONDERHOFF FERMAPOR DD980 (red)
for bucket lids



SONDERHOFF FERMAPOR DD980

The sealing for metal barrel and packaging lids

SONDERHOFF FERMAPOR DD980 is the brand name for single-component PVC plastisol for the production of heat-curing, soft-elastic foam seals.

Individual formulations

The properties of the SONDERHOFF FERMAPOR DD980 systems requested by the customers are converted into tailor-made product formulations for different packaging requirements.

The application process

SONDERHOFF FERMAPOR DD980 systems are processed using single-component dispensing systems usually available on the market. The fluid PVC plastisol is applied into the groove of metal lids for drums or buckets as well as for sealing metal jagged lids through the dosing nozzle of a single-component dispensing system. After a short heat-curing in a specially designed continuous furnace, the plastisol foams up and thickens. The duration spent in the furnace is usually about 2 to 15 minutes. The oven temperatures range from +170 to +240 °C. The result is a seamless, closed-cell PVC soft foam seal on the metal lid, which can already be installed after a short cooling period.

Broad range of properties

SONDERHOFF FERMAPOR DD980 systems possess a high resistance to many chemicals such as solvents, coolants and cleaning materials, alcohols, hydrochloric and nitric acid, and ammonia gas. In addition, they are characterized by minimal water absorption of <1 % in an uncompressed condition.

Suitable for the sealing of food packaging

Our phthalate-free SONDERHOFF FERMAPOR DD980 PVC plastisol is approved for food packaging by EU regulation No. 10/2011. It also meets the requirements of the German LFGB (according to §§ 30 and 31 part 1 of the food and fodder laws), judged by the guidelines laid down by the EFSA (European Food Safety Authority). It can be used in direct contact with liquid, acidic, fat-containing and dry foodstuffs.



SONDERHOFF FERMAPOR DD980
for drum cover with clamping ring



SONDERHOFF FERMAPOR DD980
for jagged lid round and square



SONDERHOFF FERMAPOR DD980
for drum cover inside lacquered

SONDERHOFF FERMAPOR DD980

The technology



SONDERHOFF FERMAPOR DD980 – The foaming process:

- > **Material application:** SONDERHOFF FERMAPOR DD980 PVC plastisol is applied into the lid groove through the dosing nozzle of a single-component dispensing system.
- > **Foaming time in the curing furnace:** SONDERHOFF FERMAPOR DD980 PVC plastisol foams and sets into a thermoplastic at temperatures from +170 to +240 °C. The duration in the furnace ranges from approximately 2 to 15 minutes, depending on the temperature.
- > **Assembly:** The SONDERHOFF FERMAPOR DD980 soft foam seal, applied in the lid groove, can be used immediately after cooling.



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PROCESSING INFORMATION

- SONDERHOFF FERMAPOR DD980 systems are processed using single-component dispensing technology usually available on the market. The recommended processing temperature for PVC plastisol is +18 to +26 °C. Temperatures above +40 °C can lead to gelation of the product. After heat treatment in the oven and when the SONDERHOFF FERMAPOR DD980 soft-elastic foam seal in the lid groove has cooled down, the packaging covers can be installed immediately.

PHYSICAL AND CHEMICAL PROPERTIES

Property	SONDERHOFF FERMAPOR DD980
Appearance	Beige, white, red or grey-green
Viscosity	From 800 to 7,500 mPas
Density	From 0.35 to 0.90 g/cm ³
Hardness	From 12 – 55 Shore A to 50 – 90 Shore 00
Temperature resistance	From -10 to +60 °C
Tensile strength	From 800 to 900 kPa [N/cm ²]
Elongation at break	Approx. 150 %
Water absorption	Up to <1 %
Other properties	Good resistance to many chemicals and solvents, usable immediately after cooling

THE SONDERHOFF FERMAPOR DD980 RANGE

SONDERHOFF FERMAPOR DD980-	Color	Viscosity mPas	Density g/cm ³	Hardness Shore 00	Hardness Shore A	Further properties
6448-A-R	Red	2,500 – 5,500	0.38 – 0.48	53 – 68	13 – 23	Very good adhesion to various metal sheet qualities and paints; optimized resistance to various solvents
6646-A-R	Red	2,000 – 5,000	0.40 – 0.50	57 – 67	16 – 24	Very good adhesion to various metal sheet qualities and paints; cost-effective
6051	White	2,500 – 4,000	0.40 – 0.50	55 – 65	15 – 20	Optimized resistance to various solvents
VP-0407-FA	White	800 – 1,700	0.55 – 0.63	75 – 85	30 – 40	Phthalate-free; suitable for food packaging acc. to EU regulation No. 10/2011
6646-A	Grey-green	2,500 – 5,000	0.40 – 0.50	52 – 67	17 – 24	Very good adhesion to various metal sheet qualities and paints
7165	Beige	1,800 – 3,800	0.55 – 0.61	58 – 73	25 – 35	Cost-effective
6665	Yellow-beige	2,500 – 3,700	0.54 – 0.60	60 – 70	20 – 30	Good adhesion; optimized resistance to various solvents
6545	Beige	1,500 – 3,500	0.36 – 0.51	60 – 70	15 – 25	Cost-effective
5145	White	1,800 – 2,500	0.36 – 0.43	45 – 60	10 – 15	Low density; optimized resistance to various solvents
8597	Beige	2,500 – 4,000	0.80 – 0.86	80 – 90	45 – 55	High density; optimized resistance to various solvents

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