

**SIMONA**

**tech.info**

SIMONA® PE blue 340

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Sheets for elevated tank linings in  
drinking water applications

# Product Information

**SIMONA® PE blue 340 sheets are a cost-effective solution when it comes to lining tanks containing raw, purified or drinking water. At the same time, they are designed to minimise cleaning and disinfection costs.**

## Processing

The lining method applied is suitable for restoring virtually any shape of tank. All butt joints or welded seams can be smoothed close to the surface. As a result, we can guarantee that the finished lining will have a permanently homogeneous surface texture even in very challenging installation situations. One of the key benefits during operation is that the tank can be cleaned and disinfected quickly and efficiently, making this solution far less expensive than those provided by conventional methods of repair.

### Product range of SIMONA® PE blue 340

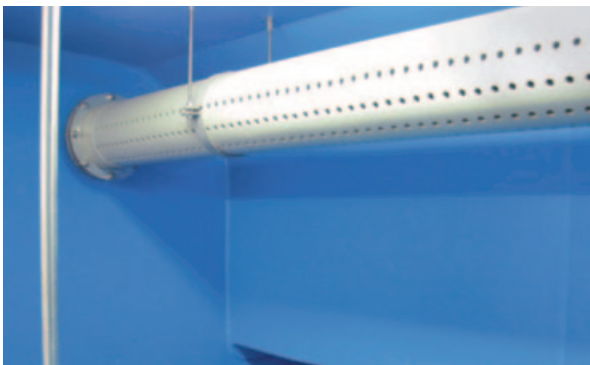
Extruded sheets	Pressed sheets	Welding rods	Solid rods
✓		✓	
blue 340		blue 340	

## Material input

For drinking water applications we only use approved and tested materials. A DVGW W 270 test certificate regarding protection against microorganisms in drinking water applications confirms the suitability of SIMONA® PE blue 340 for tank linings. In addition, a manufacturer's certificate is available confirming compliance with the KTW Guideline (organic materials in contact with drinking water) issued by the German Federal Environment Agency.

## Installation

The existing tank must be drained, cleaned and dried before work can begin. The lining is delivered in the form of sheets, which are customised on site in accordance with the specific project, thus ensuring the very best precision fit. All the welded seams are backed with electrically conductive material so that it is possible to perform a leak test at any time, even subsequent to acceptance. What is more, measuring instruments and customer-specific fittings can be incorporated within the tank.



Water chamber with discharge strainer



Wall / floor lining transition

# Product range / Material specifications

## Workmanship

As a manufacturer of semi-finished products without its own installation staff, SIMONA AG recommends established companies specialized in the construction of plastic tanks and installations. Drawing on many years of experience in plastics processing, they are certified, monitored specialist contractors working according to Section 19 I of the German Water Resources Act ,WHG' and use trained skilled personnel. In addition, a training certificate issued by the German Association for Welding (,DVS') has to be presented.

## Special features

- Permanent structure due to solid material design (≥ 8 mm thick)
- High chemical resistance
- Excellent processing
- Certified in accordance with DVGW Code of Practice, Worksheet W 270, not to provide a breeding ground for microorganisms
- Risk of contamination can be ruled out
- Meets the drinking-water contact recommendations issued by the German Institute for Risk Assessment ,BfR'

## SIMONA® PE blue 340 sheets. extruded

Thickness mm	Without protective film					
	2000 x 1000 mm		3000 x 1500 mm		4000 x 2000 mm	
	kg/piece	Order code	kg/piece	Order code	kg/piece	Order code
3.0	5.7	030000011	12.8	010012160	22.7	010012163
4.0	7.6	030000012	17.0	010012161	30.3	010012164
8.0	15.2	010012155	<b>34.1</b>	<b>030008015</b>	60.6	030000013
10.0	18.9	010012156	<b>42.6</b>	<b>010007083</b>	75.8	030000014
12.0	22.7	010012157	<b>51.1</b>	<b>030008016</b>	90.9	030008017
15.0	28.4	010012158	<b>63.9</b>	<b>030007535</b>	113.6	010012165
20.0	37.9	010012159	85.2	010012162	<b>151.5</b>	<b>030007879</b>

Availability of the products from stock:

**Bold face** = available immediately;

light face = available on request

## SIMONA® PE blue 340 welding rods

● Round rod (RR)   d	Dia.	Length	Roll	Spool 2 kg
	mm	m/kg	Order code	Order code
	3.0	150.0	040000026	<b>040000708</b>
	4.0	85.0	040000027	

Availability of the products from stock:

**Bold face** = available immediately;

light face = available on request

## Material specifications of SIMONA® PE 340 blue

Density, g/cm <sup>3</sup> , ISO 1183	0.947
Yield stress, MPa, DIN EN ISO 527	22
Tensile modulus of elasticity, MPa, DIN EN ISO 179	900
Notched impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	21
Shore hardness D, ISO 868	64
Temperature range, °C	-50 to +80

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# Template for tender modules / Addresses

## Tender module for the lining of elevated tanks and drinking water chambers using plastic sheets.

Lining of the water chamber with welded PE sheets in SIMONA® PE blue 340 quality, of solid material design, including non-displaceable fixture of floor and wall elements on slide rails for permanent relief of strain on the welded seams. Processing-related offset as well as scores and fusion edges shall be compensated/ levelled out.

Delivery with a manufacturer's certificate confirming compliance with the KTW Guidelines (organic materials in contact with drinking water) issued by the German Federal Environment Agency and the requirements of DVGW W 270 issued by the Institute of Environmental Hygiene, Gelsenkirchen.

Installation by certified specialist contractors according to Section 19 I of the German Water Resources Act 'WHG' with evidence of external monitoring by TÜV Rheinland. Processing in accordance with DVS 2207-4 by certified specialist installers. Acceptance by producing evidence of watertightness based on a spark test at high electrical voltage in accordance with DVS 2206.

Bid based on as-built drawing no. ...

Floor area approx. ... m<sup>2</sup>

Wall area approx. ... m<sup>2</sup>

(ceiling area if applicable, approx. ... m<sup>2</sup>)

including all internal fittings such as overflow funnels, discharge strainers, pump sump and ladder as well as facilities for connecting up measuring instruments.

Fitting pieces and connection materials shall not be remunerated separately.

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