



greiner

PURTEC



Cella[®] Cool

The innovative cold insulation



Greiner PURTEC

Greiner PURTEC sets and raises the standards of insulation for warm water tanks. We focus on the requirements of the customers. We still set great store by emphasizing Research and Development activities, testing and patenting new products with better insulation properties. In an era of high energy costs and worldwide issues such as global warming, insulation is becoming more and more important. In order to contribute, we always focus on our customer's needs and new innovative technologies.

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Cella[®]Cool

Great solution for cooling systems that require the use of thermal insulation. It is made of elastomeric material that can be used for all application in the area of civil and industrial cooling, such as refrigeration, air conditioning, cold water systems including tanks, pipes, etc.

The product is characterized by its simple application and incredibly high water diffusion resistance of the material.

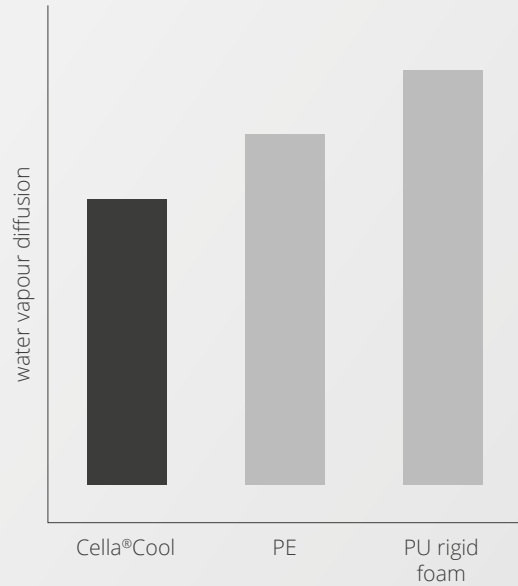


Why Cella[®]Cool

- 1 Amazing properties.
Great water vapour diffusion resistance.
- 2 Individual solutions.
Every product is aligned to a specific tank.
- 3 We love our planet, so we set an example.
No harmful substances.
- 4 Top quality.
Stable in endurance and insulation.

Diffusion resistance

While other materials used for water vapour permeability insulation lead to values from ~200 to ~500, Cella®Cool achieves easily vapour permeability ~10000.

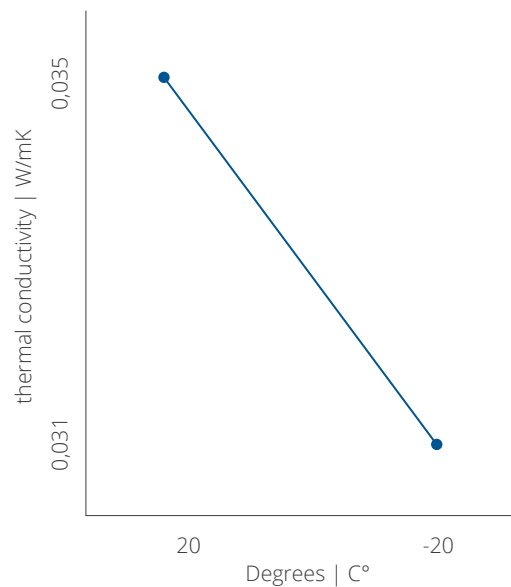


GRAPH: Diffusion resistance comparison

Cella®Cool surpasses other products.

Thermal insulation properties

The thermal conductivity of this elastomeric insulation at desired cooling temperatures is very low. This properties combined with the high diffusion resistance makes the Cella®Cool insulation the preferred product for cold water applications.



GRAPH: Thermal conductivity

Cella®Cool performs greatly at desired low temperatures.

Description

- ① Main insulation block. All the parts are made from the same elastomeric material. The insulation is shaped as flat, flexible plates. Creation of the self-supporting system holding on the boiler is very simple.

- ② Self adhesive tape.

- ③ Self adhesive covering stripes.

- ④ The top insulation cover.

- ⑤ Bottom part insulation.



Sustainability, ecology

During the production of our products we focus on quality and sustainability. Our production is managed by quality standards of ISO 9001 (Quality Management) and ISO 14001 (Environmental management). During utilization phase our products maintain their properties throughout the whole life cycle, especially concerning thermal conductivity, unlike other insulation materials like polyurethane rigid foam.

At Greiner PURtec, sustainability, environmental friendliness and the highest quality go hand in hand.

Being responsible deserves respect

Environmentally responsible companies enjoy higher respect of clients, governments and other companies. The Cella®Cool transportation leads to significantly lower CO² emissions compared to other insulation concepts, thanks to its low weight and portability. It is easy to be responsible by using our solutions.

Unique approach from the start

HCFC	free
CFC	free
emission	free
FCKW	free
HFCKW	free
HFKW	free
silicon and silicates	free
environment protection	REACH-Konform
water stress	harmless
pH	no influence
health influence	none
recyclability	100 %

Cella®Cool

The closed cell structure prevents corrosion because of high water vapour resistance and the creation of completely closed system.



- ① smooth surface of homogeneous elastomeric material
- ② closed cell structure
- ③ self-adhesive stripe
- ④ connection covering (also self-adhesive)

Specifications

The important facts

surface	smooth elastomer	insulation thickness	25 mm
fastening	self-adhesive tape	fire class	B1
workers for installation	1	temperature range	-200 to +105 °C
special aids or tools	no need	diffusion resistance	$\mu \geq 10000$
custom adjustments	yes		

Surface finishes



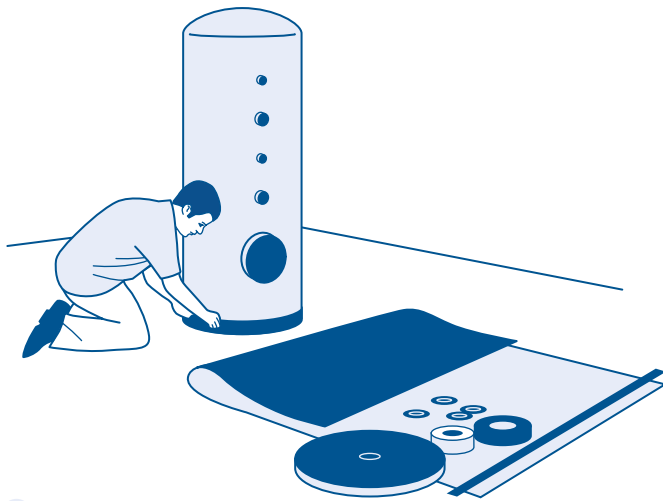
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4 easy steps

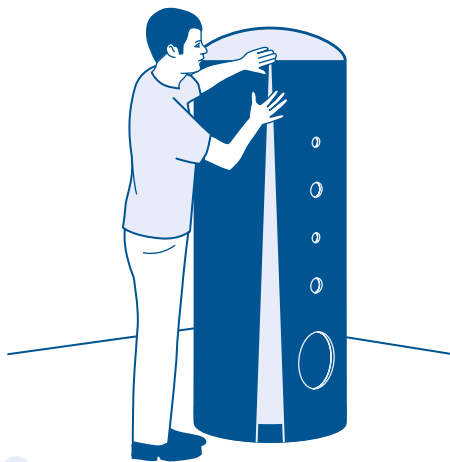
With this 4 easy steps, 1 worker can install the insulation in just a few minutes:

- 1 Prepare all parts, insulate the bottom
- 2 Install the main block
- 3 Insulate the top
- 4 Finish the details and use self-adhesive stripes

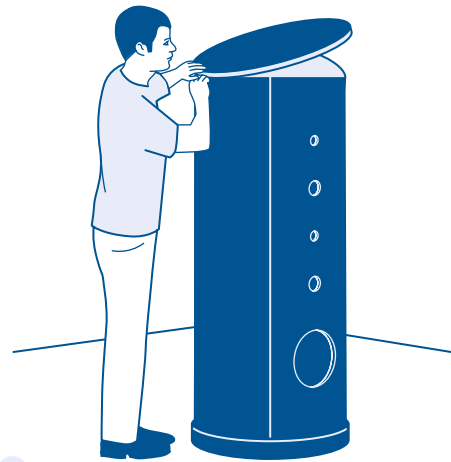
NOTE: Detailed manual is part of the delivery.



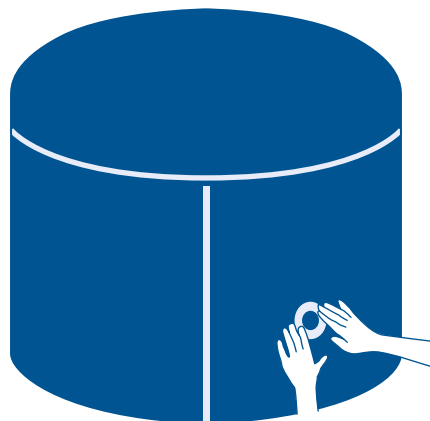
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