



SCHMETZER
INDUSTRIES

ChameleonCore EXT

ChameleonCore INT

ChameleonCore by Schmetzer Industries is a smarter insulation product that significantly reduces energy costs

- Up to 5Wh energy Storage Capacity per square metre
- 4 in 1 Solution
- Insulation – Thermal Break – Vapour Barrier – Energy Storage Capacity
- Australian Developed, Australian Manufactured and Australian Owned.
- Rapid Installation to internal and external Walls, Ceilings Roofs and under Floor Coverings
- Low Flammability

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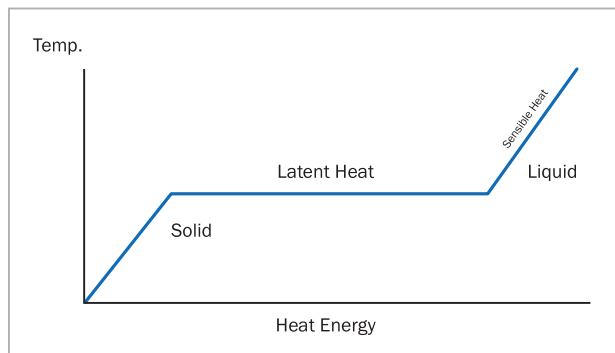
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Introducing the ChameleonCore range of smart insulations developed by Schmetzer Industries.

Developed, Manufactured and owned in Australia by Australians and for the unique Australian conditions and climates.

Australia has a unique climate. Temperatures can range from extremes of below zero in the Snowy mountains to well past 40 degrees in much of the country. The Phase Changing centre **ChameleonCore** products have almost the same effect weather combatting a sweltering day or a freezing cold day.

The Hero of **ChameleonCore** Product line is the Phase Changing centre. The silicone based foam is impregnated during the manufacturing process with a Phase Change material.



Phase Change Material (PCM) is a substance that is engineered to freeze and melt at a specified temperature, in our case 23 degrees Celsius. As the material changes its state from solid to liquid, the material must draw substantial amounts of heat energy from its surrounding environment. It's the reverse effect as the PCM changes its state from liquid to Solid. During this process, the PCM must Release substantial amounts of energy into the surrounding environment to return to the solid state.

This transfer of energy, centralised at 23 degrees Celsius creates a large window of time that the surrounding environment is “passively” controlled to maintain this temperature. This eliminates the need for Heating/cooling in this time window. If the ambient indoor temperature does rise above 25 degrees or fall below 21 degrees, artificial heating or cooling is required to return the indoor environment back to the comfortable temperature zone.

This process can massively reduce heating and cooling costs and associated greenhouse gas emissions.

The Phase Change material within the **ChameleonCore** range is sourced directly from the world's leading supplier of phase change materials. Based in Germany, they are at the forefront of innovation and manufacture of such products. And have tested the lifespan to be greater than 20,000 cycles without any loss of capacity.



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ChameleonCore **EXT**

ChameleonCore EXT is a composite foam insulation product for use against external roof and walling finishes. The reflective foil and high density resistance based foam outer layers allow **ChameleonCore EXT** will within its limitations, regulate its own temperature to a comfortable 23 degrees Celsius.

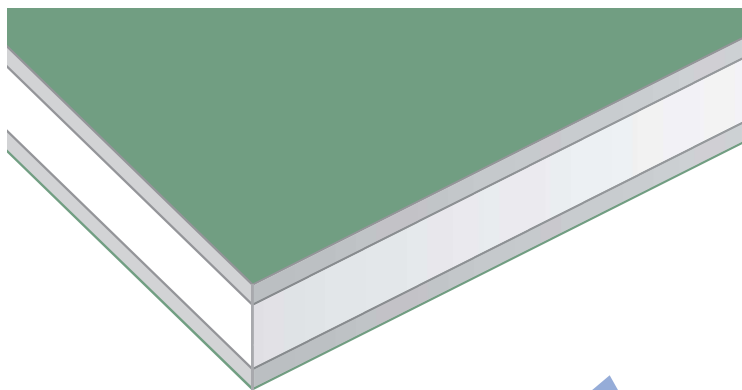
Supplied in 1200mm wide rolls at a length of 20m, **ChameleonCore EXT** is easily roll out over the safety support wire before installation of the roof itself. Ensuring a 40mm Air gap between Insulation and roof surface. In the case of Walling, **ChameleonCore EXT** is installed directly to the external wall framing before installation of the wall system, again allowing for a 40mm airgap.

ChameleonCore **INT**

ChameleonCore INT is a flexible silicone based foam with a high strength, pressure sensitive backing to adhere directly to the reverse side of the Gypsum Board. **ChameleonCore INT** will within its limitations, regulate the indoor temperature to a comfortable 23 degrees Celsius.

Supplied in 1200mm wide rolls at a length of 40m, **ChameleonCore INT** is easily roll out over the gypsum board and the pressure sensitive adhesive will bond **ChameleonCore INT** directly to the reverse face. The backing paper of **ChameleonCore INT** can then be removed and installed to the wall or ceiling framing.

ChameleonCore INT can also be installed under many types of flooring as an extra, energy storing underlay.



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