

# EXTERIOR INSULATION AND FINISH SYSTEMS IS FOR ALL CLIMATES.



**Exterior insulation and finish systems can be adapted to regional construction methods and different climatic conditions.**

## **Summer and Hot Climates**

When rooms are regularly cooled, energy can be saved by preventing the infiltration of heat and atmospheric humidity from the outside.

## **Winter and Cold Climates**

When it gets colder outside and rooms have to be heated, external insulation keeps out the cold while keeping in the heat. This saves energy and makes for pleasant temperatures.

## **Talk to the Specialists!**

Thanks to its VINNAPAS® grades, WACKER POLYMERS has played an integral role in the development of exterior insulation and finish systems (EIFS) since they were first marketed back in the early 1970s.

Wacker Chemie AG, a German-based chemical company, is the world leader in polymer binders, offering a tried-and-true product range in this area, backed up with expert technical support. Talk to us!

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**WACKER POLYMERS**

**VINNAPAS®**

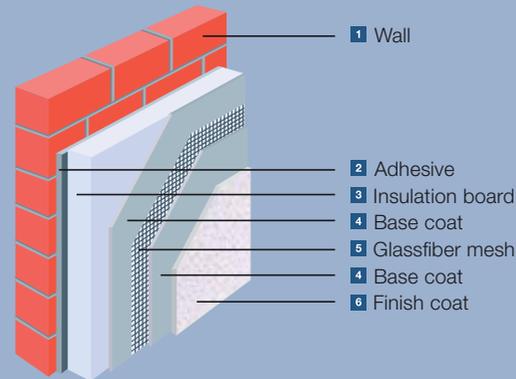
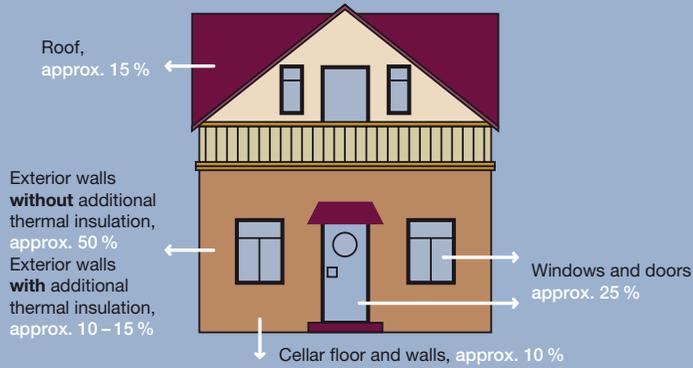
## SAVE ENERGY AND CUT COSTS WITH EXTERIOR INSULATION AND FINISH SYSTEMS

CREATING TOMORROW'S SOLUTIONS

# THE SINGLE LARGEST ENERGY-CONSUMING SECTOR IS BUILDINGS.

## LET'S START SAVING ENERGY WITH EIFS!

## VINNAPAS® DISPERSIBLE POLYMER POWDERS IMPROVE A SYSTEM'S RESISTANCE AND DURABILITY.



50 % of total energy consumption is consumed by buildings.<sup>1)</sup>

Thermal insulation is a central plank for creating energy-efficient strategies.

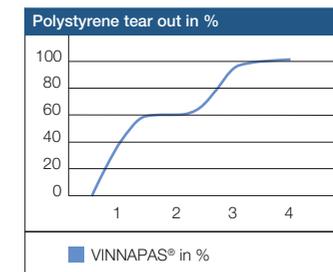
Heating and cooling account for 40 – 60 % of the energy used in buildings, so let's reduce this first.

Exterior walls are the single largest source of leaks of hot or cold air in buildings. The most efficient insulation measure is an exterior insulation and finish system. If EIFS is installed in a single-family or duplex house, for example, energy costs can be slashed by as much as 60 %.

EIFS combines various materials, each playing a specific role.

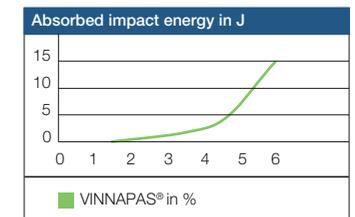
- 1 Wall: suitable substrates for EIFS, e.g. plastered or unplastered brickwork and concrete
- 2 Adhesive: cementitious dry mortar containing VINNAPAS® dispersible polymer powder
- 3 Insulation board: mainly expanded polystyrene boards
- 4 Base coat: cementitious dry mortar containing VINNAPAS® dispersible polymer powder
- 5 Glassfiber mesh: this provides high tensile strength
- 6 Finish coat: unlimited scope for styling the exterior, e.g. stucco or paint

**Greater Adhesive Tensile Strength**  
VINNAPAS® dispersible polymer powders enhance the adhesive tensile strength of mortars and hence the durability and resistance of the entire system.



**Base Coat with Improved Impact Strength**

The base coat protects the insulation board against weathering and provides mechanical strength. But to do this, the base coat has to be flexible. VINNAPAS® dispersible polymer powders ensures this flexibility.



<sup>1)</sup>DG-TREN (Directorate General for Transport and Energy), European Commission