



# ECAP® ADP

## Adhesive Powder

**READY-TO-USE, FIBRE-REINFORCED ADHESIVE AND SKIMMING COAT, IN POWDER FORM**

### ECAP® ADP - Adhesive Powder

Ready-to-use, fibre-reinforced adhesive and skimming coat, in powder form

PRODUCT	<p>ECap® ADP is a mineral, fibre-reinforced adhesive and skimming coat. It is based on hydraulic binders, polymer-modified resins, selected aggregates and state-of-the-art additives, specific for the adhesion and levelling of thermal insulating panels in ETAG 004-compliant systems (Edil-Therm®).</p> <p>ECap® ADP adheres strongly to any (new or existent) traditional support, even those with the lowest absorption level. It is therefore ideal for both internal and external renovation. Its particular formulation allows an extremely easy application, obtaining a highly aesthetic smoothing coating.</p> <p>The dimensional stability, guaranteed by a controlled hygrometric shrinkage, allows the application in a variable thickness from 1 to 10 mm per layer. As a consequence, it is ideal also as regulating skimming coat for the restoration of flatness on horizontal or vertical supports.</p>
PACKAGING AND STORAGE	<ul style="list-style-type: none"> <li>· Bag of 25 kg.</li> <li>· Store in closed package at temperatures between +5 °C and +35 °C. Use within 12 months.</li> </ul>
CONSUMPTION / YIELD	<ul style="list-style-type: none"> <li>· Powder consumption (gluing): from 4 to 6 kg/m<sup>2</sup> on full surface - from 3 to 5 kg/m<sup>2</sup> on perimeter with points.</li> <li>· Powder consumption (skimming coat): from 4 to 6 kg/m<sup>2</sup> - 1,1 kg/m<sup>2</sup> per mm of thickness.</li> </ul>
FIELDS OF APPLICATION	<p>ECap® ADP can be used on the majority of commonly used supports in the construction industry for interventions both on new and existing buildings. Suitable for:</p> <ul style="list-style-type: none"> <li>· External insulation and finishing system with traditional panels such as EPS, graphitic EPS, mineral wool or XPS (only for low wainscoting).</li> <li>· Lime-based plasters.</li> <li>· Lime/cement-based plasters.</li> <li>· Brick.</li> <li>· Precast concrete or cast-in-place concrete.</li> <li>· Autoclaved aerated concrete.</li> <li>· Old paints and coatings, as long as they are clean, solid and well anchored to the base.</li> </ul> <p>ECap® ADP can be used for external insulation and finishing system, for the gluing and as skimming coat for natural, breathable panels (wooden fibres or cork). It is certified according to ETAG 004 for External Wall Insulation (EWI) Edil-Therm® (ETICS).</p> <p>For the application on different supports, contact <i>Edilteco Technical Department</i>.</p>
ADVANTAGES	<ul style="list-style-type: none"> <li>· <b>High adhesive power:</b> thanks to the addition of specific additives, it has excellent adhesive properties to the most commonly used supports.</li> <li>· <b>Levelling:</b> it can be used as a "levelling coat" on non-flat surfaces with high thickness (up to 10 mm).</li> <li>· <b>Easy to work:</b> thanks to the use of state-of-the-art additives, the combination of fluidity, easy separation from the tools and the simplicity of the working process reduces the difficulties and the delays of the laying on site.</li> <li>· <b>ETA Certificate:</b> product included in External Wall Insulation (ETA Certificate).</li> <li>· <b>Excellent property to wetting and thixotropic:</b> the special additives in the formula allow an easy application, both vertical and horizontal.</li> <li>· <b>Controlled hygrometric shrinkage:</b> the fibres and their particular formulation reduce the risk of cracking.</li> <li>· <b>Excellent aesthetic finishing:</b> thanks to the selected aggregates at constant grain-size curve, the finishing made with reinforced skimming coat on the façade allow a painted or decorative finish and does not require any further work.</li> </ul>
APPLICATION	<p><b>Preparation of the support:</b></p> <p>remove dust, non-cohesive or detached parts and clean thoroughly the area of application. It is necessary that there are no dust or other parts of superficial treatments (detergents, oily products, mineral or organic grease, wax, gypsum or salt). The support must be properly cured and, in the case of insulating material sheets, the potential protective films have to be removed.</p>

## APPLICATION

### Preparation of the product:

use 5,25 - 5,75 L of clean water (UNI EN 1008) every bag of 25 kg (21 - 23% of the mass). Pour the product in a clean container with  $\frac{3}{4}$  of the mixing water. Mix for at least 3 minutes with a low rpm mixing machine. Gradually incorporate the remaining water until the mixture becomes thixotropic, homogeneous and smooth. Let the mixture rest for a few minutes. Do not use partially opened bags. The product stocked in open packages and partially used, may no longer meet the specifications described in this technical data sheet.

### Application:

**Gluing:** moisten the support before the application. On rough and not plastered surfaces apply the product in 2 or 3 parts in the middle of the panel and on the perimeter. On plastered and flat surfaces apply the product uniformly with a toothed trowel.

**Skimming:** apply a first coat of product with a smooth trowel uniformly and smoothly. Place the Edil-Therm® 160 mesh in vertical stripes and overlap the edges for at least 10 cm. Apply a second coat, at least 24 hours after the first, in order to fully cover the mesh. When the product starts to dry, finish it with a sponge float. To level thicknesses greater than 10 mm, it is necessary to apply an additional coat on the one already hardened. Do not apply Ecap® ADP on supports with standing water, completely dried (in case of cement-based substrates) or in extreme conditions (frozen walls or under direct sunlight). Make sure that during the application, the ambient, support and material temperature is between +5 °C and +35 °C.

## TECHNICAL CHARACTERISTICS

CHARACTERISTIC	VALUE	STANDARD REQUIREMENT	REGULATION *
Physical aspect:	grey or white powder	-	-
Size:	< 0.8 - 1.2 mm	-	-
Mixing water:	21 - 23% on the powder weight	-	-
Workability time at +20 °C:	> 30 minutes	-	-
Application thickness per layer:	approx. 1.5 mm	-	-
Application temperature:	from +5 °C to +35 °C	-	-
Volume mass:	1400 - 1500 kg/m <sup>3</sup>	-	-
pH of the mixture:	approx. 11	-	-
Dry density of the mass:	1400 - 1500 kg/m <sup>3</sup>	-	EN 1015-10
Compressive strength:	CS III	CS I - CS IV	EN 1015-11
Adhesion (on EPS):	> 0.16 FP-B	-	EN 1015-12
Capillary absorption:	W0	W0 - W2	EN 1015-18
Average water vapour diffusion coefficient $\mu$ :	$\leq 8$	-	EN 1015-19
Thermal conductivity $\lambda$ :	< 0.43 W/mK	-	EN 1745
Fire reaction:	Euroclass A1	-	EN 13501-1

## WARNINGS

- For professional use.
- Alkaline material: protect eyes and skin during the application.
- After use, wash the tools with water while the mixture is still wet.
- Ambient temperature and humidity level have an impact on workability time, adhesion and drying.
- Carefully monitoring the maturation of the product for at least 24 hours after the application. Protect the wet mortar from a too-fast drying, from direct sunlight, heavy wind and rain.
- Information about disposal, storage and the handling of the product can be found in the *Safety Data Sheet*.

All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.

\* According to UNI EN 998-1.



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COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001