

DECORK[®]

Mediterraneo

DESIGN AND
PERSPECTIVES OF
THERMAL PAINTS



DIASEN[®]
GREEN BUILDING FUTURE



SHAPE OF COMFORT AND BEAUTY

INDEX

- 2** A unique formula
- 4** Architectural variations
in mediterranean culture
- 6** Technologies from ancient
tradition
- 8** Beauty and performance:
the thermal decoration
- 10** The lines of innovative painting
- 12** The native power of comfort
- 14** Values of difference
- 16** Warm wall sensation
- 18** A universal decoration
- 20** The colours of distinctive places
- 32** Original elements
- 34** Basic painting effects
- 36** Design variants
- 40** Experiencing beauty

A UNIQUE FORMULA

Decork Mediterraneo is the **decorative paint of thermal comfort**, an intuitive formulation that combines both **cork** and **kaolin**, the natural element and the mineral one. This paint is a tribute to the philosophy of the Mediterranean way of building and to the **sustainability of traditional building components**, which have enabled the communities of the Mediterranean Sea to meet vital needs of comfort and beauty.



Decork Mediterraneo is a painting that contains the essence in its name: De recalls the concept of **decoration** and **design** while cork is the raw material that comes from the **cork oak**.

The perfect synthesis between genie and place in a line of paints that becomes a **symphony of colours** in a **chromatic journey** through the mediterranean cities, coastlines and villages.

Decork Mediterraneo is **versatile**: it can be used on walls and on the floor, indoors and outdoors.

ARCHITECTURAL VARIATIONS IN MEDITERRANEAN CULTURE

CULTURES BORN ON THE SHORES OF THE MEDITERRANEAN SEA SHARE THE **DEVELOPMENT OF CIVILISATION**, THE GEOGRAPHIC AND SYMBOLIC LOCATION OF A UNIQUE ARCHITECTURE BASED ON MILLENNIAL IDEALS OF FUNCTIONALITY AND BEAUTY.



Buildings adapt to the environment, **colours** react to intense sunlight, and proximity **materials** ensure best properties and performance

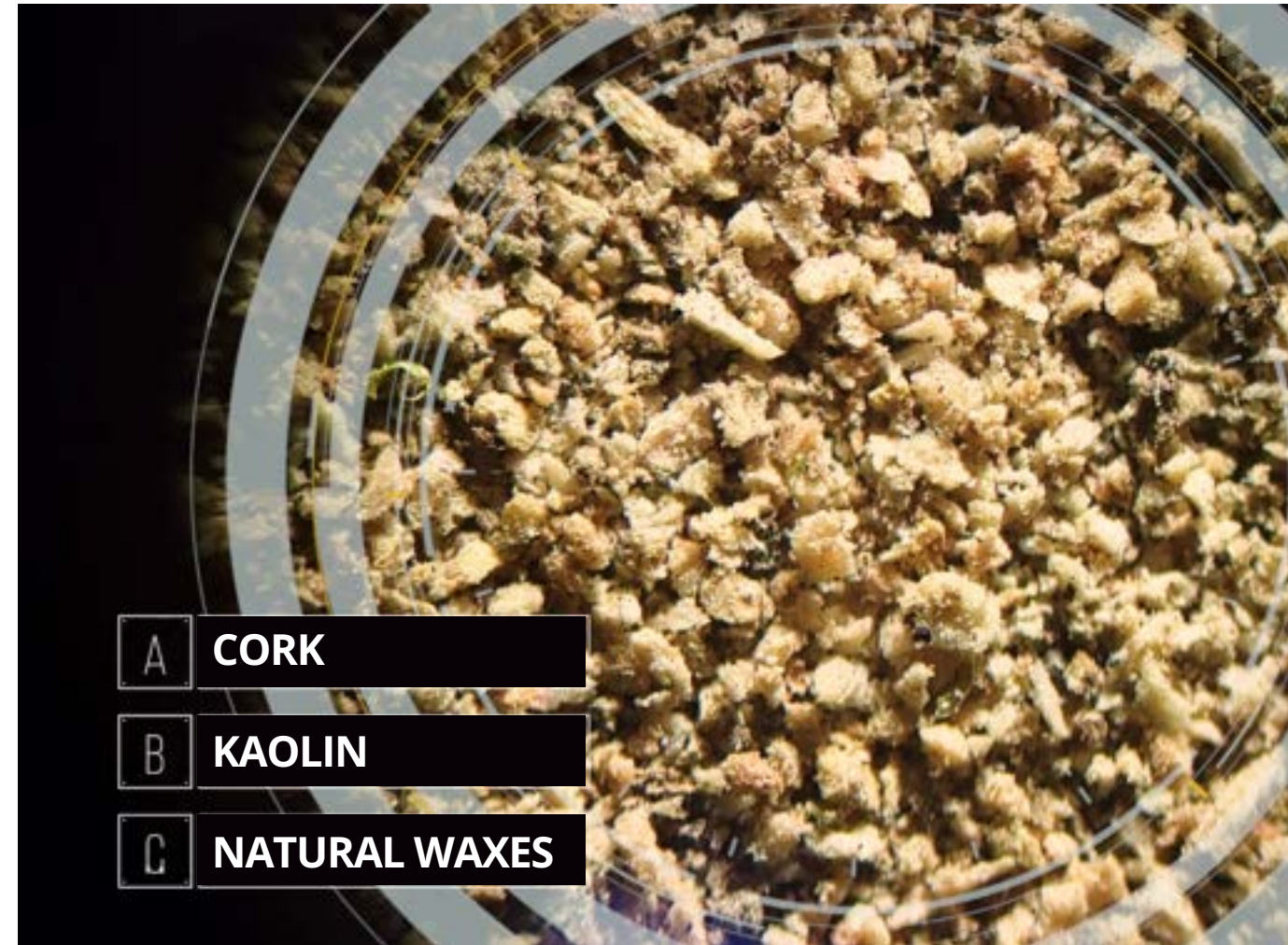
TECHNOLOGIES FROM ANCIENT TRADITION

Decork Mediterraneo was created to give **decorative form to traditional**, ecological and local materials: rammed earth, clay, lime, cork, lava stone, tuff, travertine and kaolin.

The **Mediterranean Architecture** bears the marks of its tradition: buildings are made from materials recovered from the ground, excavated from the earth and made accessible by proximity and ease of supply and transport.

The cultural reference of Decork Mediterraneo is the **lime mortar with crushed pottery/hydraulic lime and crushed bricks**. This concept brought **up to date by this innovative decorative painting**.

Through the use of **innovative mixtures** and the desire to create a durable, **thermal paint**, we generated warm walls. Functionality link to the beauty and design, **decorative effects** of historical lime-based finishes has been taken up and brought up to date with this new formula based on kaolin and cork powder.



BEAUTY AND PERFORMANCE: THE THERMAL DECORATION

Kaolin was chosen to make Decork Mediterraneo, a versatile, elastic and resistant material with an excellent capacity to **keep cork and clay together**. The separation of the components could compromise the **functionality** and **usability** of the paint.



The appearance is soft and powdery. It is characterised by a **predominantly white-grey colour** that does not exclude orange and red tendencies due to iron oxides.



Cork allows Decork Mediterraneo to be characterised as a **thermal decorative paint**: a disruptive and original idea derived from its thermal capacity and tendency to **accumulate heat and release it slowly**.

This innovative combination of cork and kaolin makes Decork Mediterraneo beautiful and comfortable. A paint that holds together the **aesthetic quality of the effects** and the **tactile feel of warm walls**.

THE LINES OF INNOVATIVE PAINTING

Decork Mediterraneo embodies a tradition that links **quality and unique technology**. The mix of white clay, cork and ecological waxes supports **excellent performance** with kaolin that impact on the opacity and whiteness of the paint and makes its **applicability** easy to work **on the substrate**.

Mineral pigments enhance **external strength**, while the combination of cork and ecological waxes gives the product **elasticity** and **durability**.

Decork Mediterraneo is a **thermal paint**, a logical leap in the panorama of decorative finishes. The properties of *Decork Mediterraneo* are expressed at **low thickness**, which enhances its **breathability** and **ease of application** in just two coats.



THE NATIVE POWER OF COMFORT

DECORK MEDITERRANEO

WAS BORN FROM A FORMULATION CHALLENGE: CREATE A PAINT CAPABLE TO LINK BEAUTY AND FUNCTIONALITY FROM NATURAL RAW MATERIALS, ACHIEVING A BALANCE BETWEEN DESIGN, THERMAL COMFORT AND THE COLOUR SUGGESTIONS OF THE MEDITERRANEAN CITIES.



The factors of its strength and innovation:

- **thermicity** to touch;
- the variety of **applications**;
- application on **many types of surfaces**;
- possibility for **chromatic experimentation**;
- high potential for material-inspired **effects**;
- very easy **application**.

The ease and versatility of application allow for an experimentation to the free imagination of designer and applicators.

Decork Mediterraneo gives the product a **strong imprint** of **craftsmanship** on customisations that make each project unique and elegant, a **'tailor-made' coating of colour**.

VALUES OF DIFFERENCE

DECORK MEDITERRANEO STANDS OUT DUE TO ITS **EXTREMELY FINE GRAIN SIZE**, HIGH **THERMAL INSULATION** AND BREATHABILITY, AND IMPORTANT **MECHANICAL AND WATER-REPELLENT PROPERTIES**.



THERMAL INSULATION

$\lambda = 0,057 \text{ W/mK}$

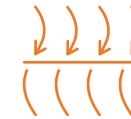
Cold and heat insulation



OUTDOOR AGEING

1680 hours (10 years)

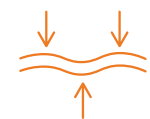
High strength and durability



PERMEABILITY

$\mu = 7$

Breathable walls allow moisture to pass through



ELASTICITY

195%

It adapts to any type of support, even the less stable ones

Decork Mediterraneo is suitable for the **coloured finishing of old and new facades and thermal plasters** (Diathonite Evolution or Diathonite Thermactive.037).

It can be used indoors and outdoors, for wall and floor decoration, it prevents the absorption of rainwater by the masonry and **prolongs the life cycle of the renders**.

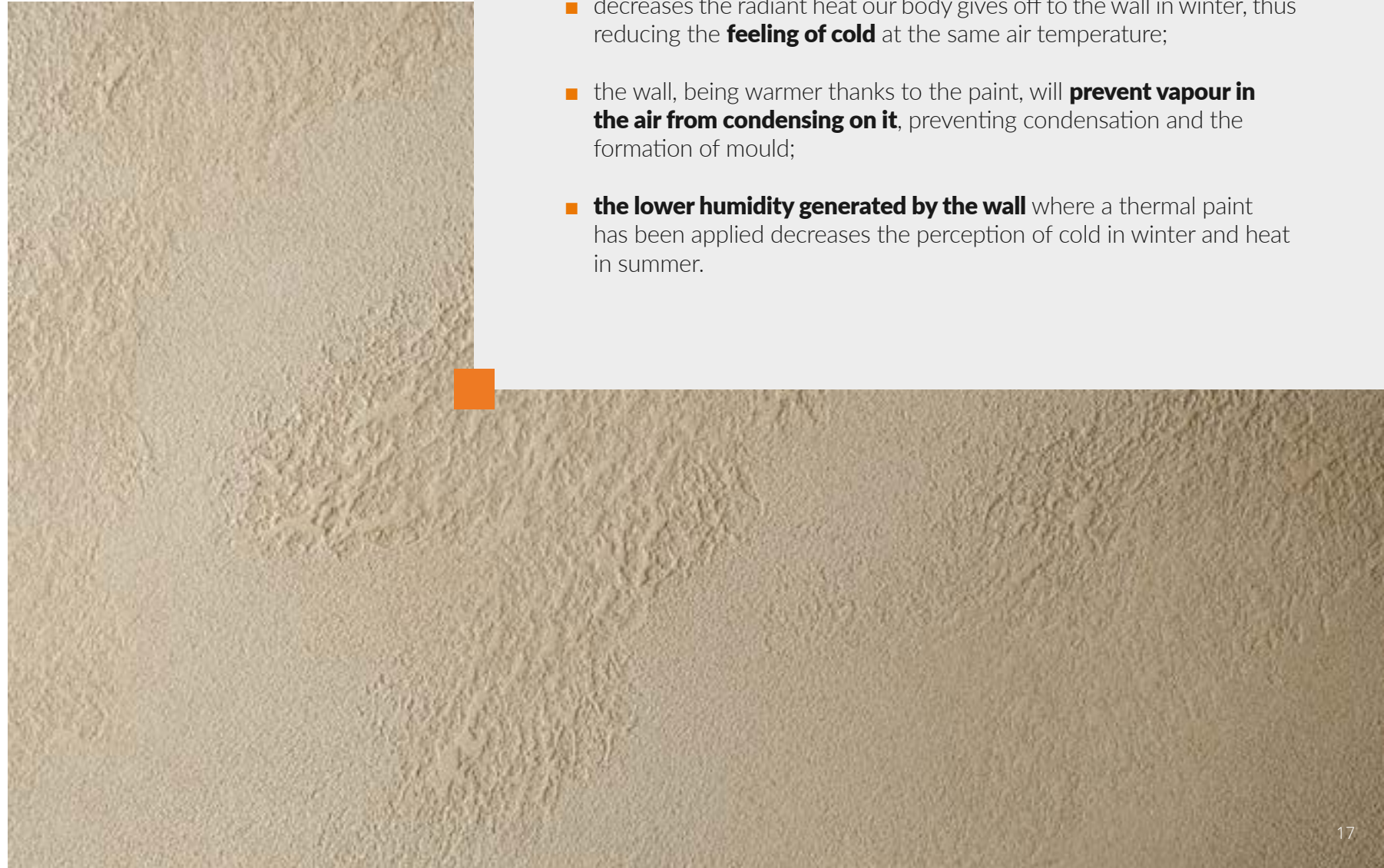
WARM WALLS SENSATION

THE THERMICITY OF DECORK MEDITERRANEO MAKES IT POSSIBLE TO OVERCOME **COLD WALLS** AND GIVE A NEW TECHNOLOGY AND FUNCTIONALITY TO THE PERCEPTION OF **THERMO-HYGROMETRIC COMFORT**.

AS THE TEMPERATURE INCREASES, THE ABILITY OF THE AIR TO ACCUMULATE VAPOUR INCREASES. THEN WITH A **WARMER WALL**, THE VAPOUR-LADEN AIR APPROACHING THE WALL COOLS LESS AND **MOVES AWAY FROM THE DEW POINT**, REDUCING THE RISK OF CONDENSATION.

Raising the temperature of a wall by applying thermal paint has **three fundamental advantages**:

- decreases the radiant heat our body gives off to the wall in winter, thus reducing the **feeling of cold** at the same air temperature;
- the wall, being warmer thanks to the paint, will **prevent vapour in the air from condensing on it**, preventing condensation and the formation of mould;
- **the lower humidity generated by the wall** where a thermal paint has been applied decreases the perception of cold in winter and heat in summer.



A UNIVERSAL DECORATION

DESIGNED FOR WALL AND FLOOR DECORATION INDOORS AND OUTDOORS, DECORK MEDITERRANEO IS A HIGHLY VERSATILE PAINT THAT ALLOWS FOR AN **INFINITE RANGE OF EFFECTS AND COLOURS**, AS WELL AS **UNIQUE, CONTINUOUS SURFACES**.

TYPICALL MEDITERRANEAN **CHROMATIC EFFECTS**.



The extreme ease of application makes Decork Mediterraneo **a paint with a universal vocation and use**. A finish that breaks down all application's barriers and turns anyone who wishes to try their hand at its application.

THE COLOURS OF DISTINCTIVE PLACES

DECORK MEDITERRANEO IS A **TRADITIONAL PAINTING** INHERITED FROM THE ANCIENTS. THE COLOURS OF THE MEDITERRANEAN SEA THAT LINKS ALL THE IMPRINTS OF THE **MEDITERRANEAN ARCHITECTURE** IN THIS REGION OF THE WORLD.

The colours chosen refer to cities and towns that are interpreters of that colour, have nurtured cultures and maintain traditions: the beige of the beaches of **Formentera**, the grey of the buildings in the historic centre of **Split**, the dove-grey of the buildings in **Otranto**, the yellow ochre of the ruins of **Ercolano**, the pink tones of the coral of **Sciacca**, the pink of the marshy salt of the **Camargue**, the fiery orange of **Taormina**, the red of **Pompei**, the blue of **Santorini** and its yearnings for freedom, the pharaonic essences of the blue of **Alexandria**.



BEIGE FORMENTERA



Beige inspires serenity, rest, introspection. **It is the neutral colour of the Decork Mediterraneo palette and holds together the materiality of brown and the linear essentiality of white.**

A **beige tending to sandy**, designed for both on the façade and inside thanks to a mix of calcium carbonate, quartzite and kaolin.

GRIGIO SPALATO



Grey harmonises black and white, **the chromatic symbols of contrast.**

Grey split, the solemn and imperial colour of Diocletian's Palace in Split, which is the result of the **mediation between titanium and iron oxide**, a stable and durable pigment that does not impact on the ecosystem.

TORTORA OTRANTO



It is a fascinating, elusive colour that oscillates between grey, rosy and mud and creates a soft, **refined shade**.

It is obtained from the combination of black and orange iron oxides whose mixture reproduces the **periodic chromatic mutation of the dove's plumage**.

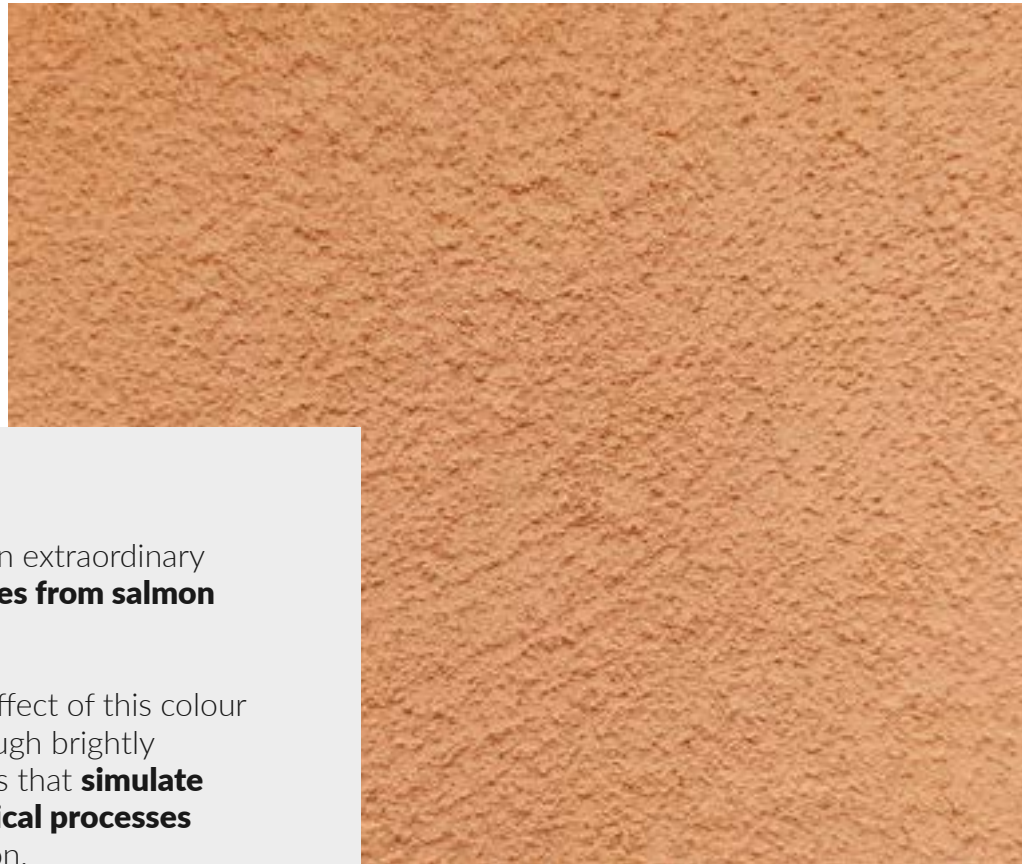
GIALLO ERCOLANO



Yellow is an expression of light and warmth, of consciousness and knowledge. It is the **colour of the sun** that shines and warms in the mediterranean lands.

It is obtained by mixing yellow iron oxide with small amounts of red iron oxide to form the typical **colour of the ancient roman city Ercolano decorations**.

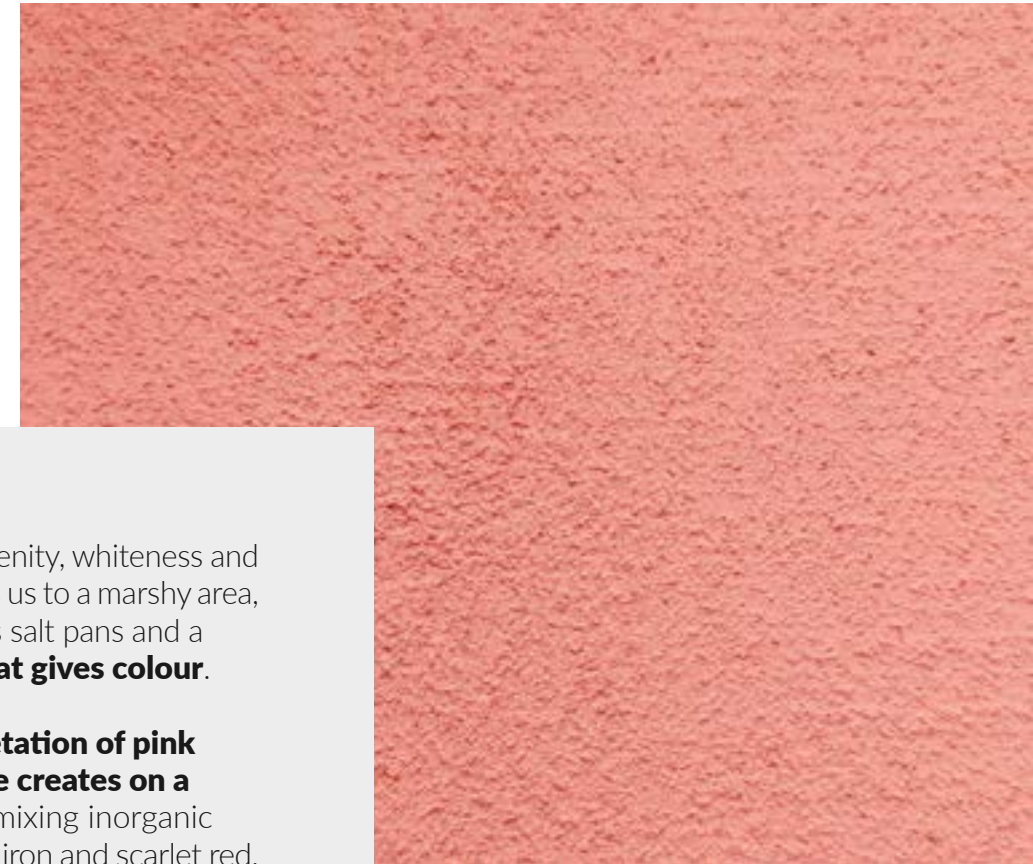
CORALLO DI SCIACCA



Sicilian coral is an extraordinary colour that **ranges from salmon to pale pink**.

The chromatic effect of this colour is achieved through brightly organic pigments that **simulate the photochemical processes** of coral formation.

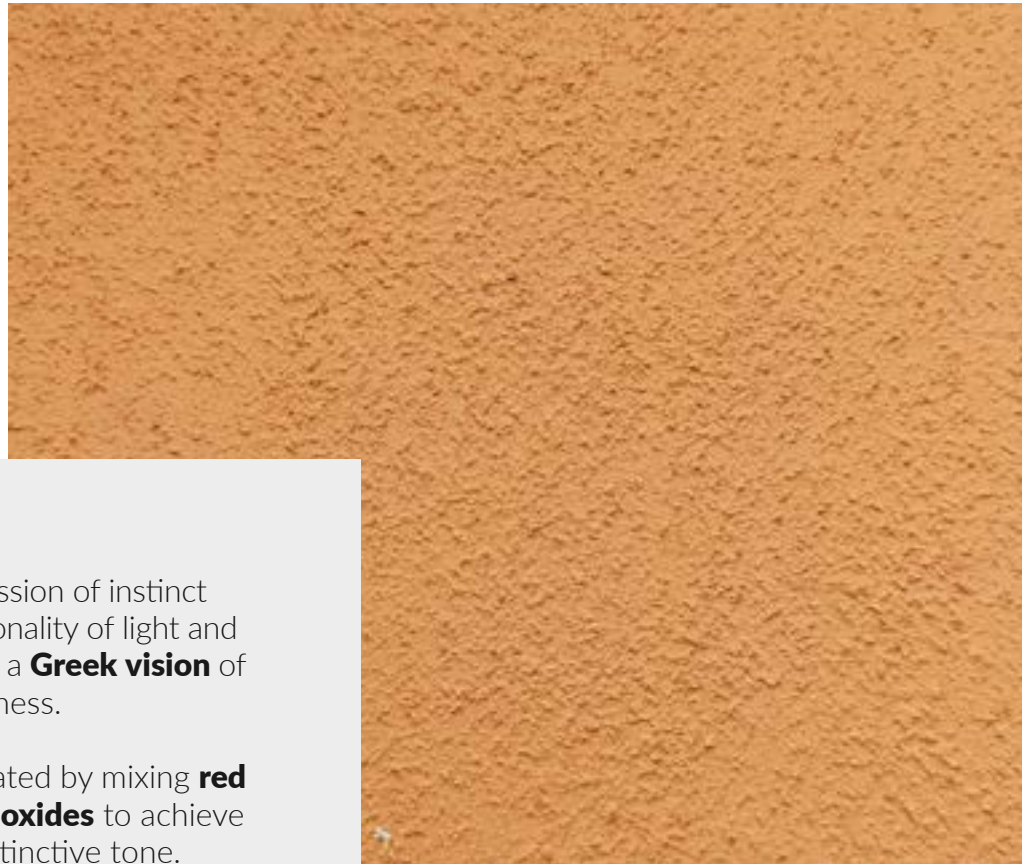
ROSA CAMARGUE



Pink induces serenity, whiteness and hope and directs us to a marshy area, renowned for its salt pans and a **micro-algae that gives colour**.

It is an **interpretation of pink that the palette creates on a white** base by mixing inorganic oxides of yellow iron and scarlet red.

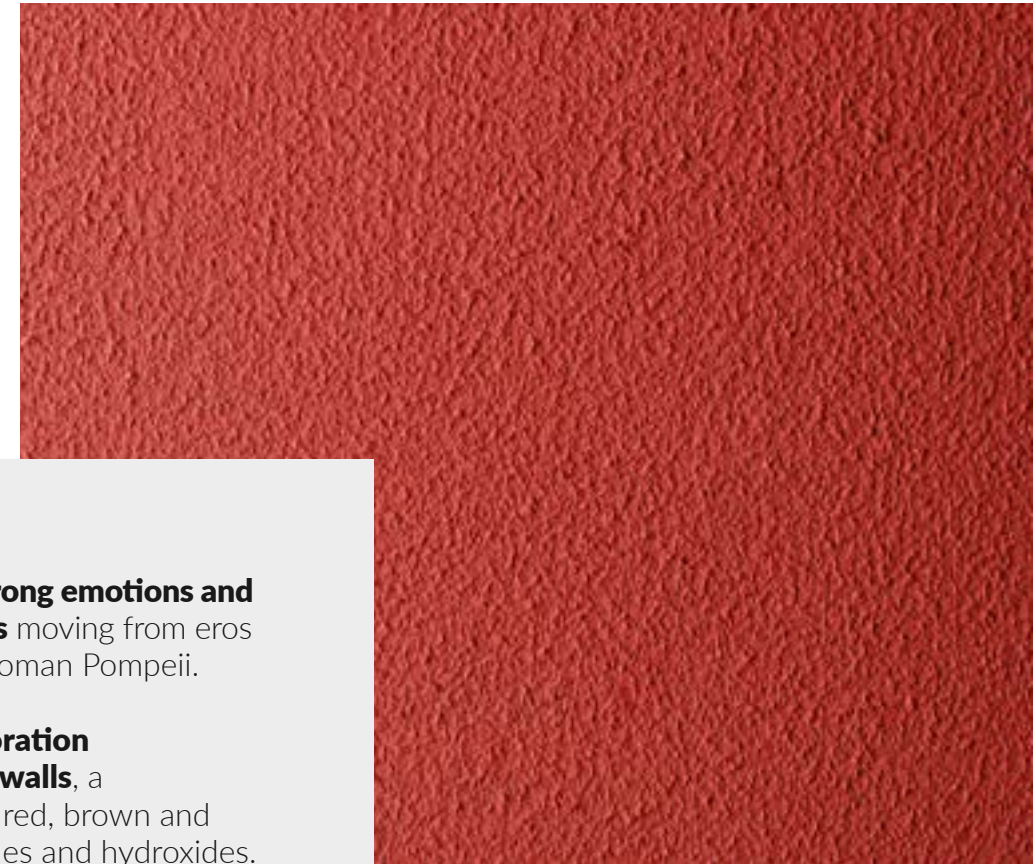
ARANCIO TAORMINA



Orange is the passion of instinct meeting the rationality of light and Taormina revives a **Greek vision** of illuminated darkness.

It is a colour created by mixing **red and yellow iron oxides** to achieve a unique and distinctive tone.

ROSSO POMPEI



It is a sign of **strong emotions and intense feelings** moving from eros to sacrifice in Roman Pompeii.

Popular in **decoration of ceilings and walls**, a combination of red, brown and yellow iron oxides and hydroxides.

AZZURRO SANTORINI

Light blue is the colour of the sea and sky and one of the **symbolic shades of Mediterranean architecture**.

It is a colour obtained by the meticulous use of **inorganic cobalt oxides**, which allow the emotions and colours of the Cyclades to be realised.

BLU ALESSANDRIA D'EGITTO

Blue is a **counterpoint** to the passion of red, and in ancient Egypt it represented the essence of the Nile as it overflows and fertilises nature.

To achieve this, the mineral pigments have been replaced by the careful use of **inorganic cobalt oxides**.

ORIGINAL ELEMENTS

Air, water, earth, fire.

These are the four constituent elements of the universe, thematised in antiquity and introduced in the 6th century BC by **Anaximenes of Miletus** and later reworked by **Aristotle** and **Plato**.

The four elements are essential components of life that find an evocative geographical, symbolic and cultural representation in the Mediterranean areas.

In full adherence to the genius loci, Decork Mediterraneo **adapts itself with original style to a series of effects.**



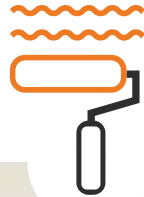
BASIC PAINTING EFFECTS

REALISING A WIDE RANGE OF EFFECTS WITH DECORK MEDITERRANEO IS POSSIBLE BECAUSE WE ARE DEALING WITH A DECORATIVE PAINT WITH A HIGH **VERSATILITY** THAT MAKES IT **WORKABLE**.

Obtaining **special effects**, starting with those corresponding to the **original elements**, is the result of the combination of the *quality of the material, the imagination and hand of the user and the tools chosen for application.*



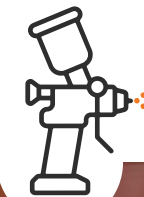
The brush represents **WATER** and the dynamism of the swaying element.



The roller stages the **FIRE** and the mighty compactness of a lava flow.



The spatula symbolises the **EARTH**, the firm materiality of cultivated land.



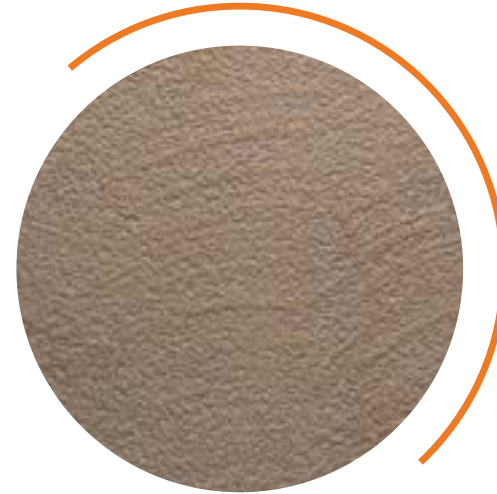
The spray depicts the **AIR**, breath embedded in porosity.



DESIGN VARIANTS

PAINTING FEATURES ALLOW **ADDITIONAL EFFECTS** THAT REPRESENT DESIGN VARIANTS OF SOME OF THE BASIC EFFECTS **APPLICABLE TO THE ENTIRE COLOUR PALETTE.**

THE SANDING OF SURFACES ALLOWS TO GENERATE **FOUR ADDITIONAL EFFECTS** CATEGORISED THROUGH THE USE OF THE LATIN TERM MITIS, WHICH REFERS TO A **SOFT, VELVETY TEXTURE.**



**SANDED BRUSH
ACQUA MITIS**



**SANDED TROWEL
TERRA MITIS**



**SANDED ROLLER
FUOCO MITIS**



**SANDED SPRAY
ARIA MITIS**

If the user decides to apply Decork Mediterraneo using a **decorative pad**, it is possible to obtain and give shape to an original **striped effect** that restores a visual sensation of ploughed earth, a material element typical of the **rural landscape of the Mediterranean area**.

The striped effect obtained by the combination of spatula and decorative pad can be **sanded**. This creates a design variant in which the ploughed earth becomes **flax earth**, in the Latin sense of something reminiscent of the velvety feel of natural fibre, cloth or linen fabrics.



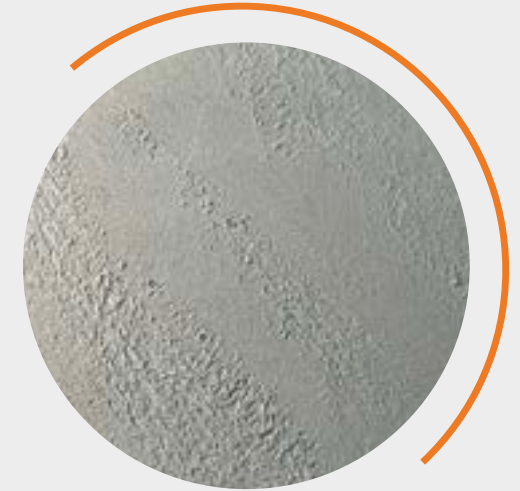
**COMBING TROWEL
TERRA ARATA**



**COMBING / SANDED TROWEL
TERRA FLAX**

By using a **pad** on Decork Mediterraneo applied with a **trowel**, the marmoris effect can be achieved, a design variation that arises in the friction between the sandpaper and the material **that brings out the natural colouring of the cork**, creating an original visual effect.

The result is an effect that oscillates between **travertine and marble** and gives beauty to the surfaces where it is applied with historical ascendancy.



**SPONGE TROWEL
TERRA MARMORIS**



**SPONGE / SANDED TROWEL
TERRA MARMORIS**

EXPERIENCING BEAUTY

nZEB PROJECT
MALLORCA, SPAIN



In this energy-efficient residential complex (**nZEB**), Decork Mediterraneo was applied as a **thermal decoration** in the base colour *Beige Formentera* on a plaster made of *Diathonite Thermactive.037*, used throughout the vertical external envelope and in the horizontal facings of the balconies to improve **summer comfort** levels.

The combination of Diathonite Thermactive.037 cork-based plaster and Decork Mediterraneo has given back, in the essential lines of this building, a system of great **aesthetic quality**, capable of high **thermal performance** and typically Mediterranean architecture in its holding together **comfort and beauty**.



EXPERIENCING BEAUTY

CASA DEGLI ULIVI ITALY



In this private building, immersed in the solitude of a green space in the Etna area very rich in olive trees, Decork Mediterraneo, in the colour *Taormina Orange*, was chosen and applied to decorate the entire **external envelope of the structure**.

The aim, mainly inspired by aesthetic reasons, was to create a **contrasting colour effect** that would stand out against the **surrounding white pavement** and harmonise with the characteristic **light green** of the olive tree leaves.



DECORK®

Mediterraneo

THE DESIGN AND
THE WELL-BEING OF
THERMAL DECORATION

Certified



Corporation



THE INTERNATIONAL EPD® SYSTEM





DIASEN

Sassoferrato, Italy
diasen@diasen.com