



**PROFESSIONAL SYSTEMS  
CAP ARREGHINI TO  
SANITISE ENVIRONMENTS**

**HACCP AND PHOTOCATALYTIC SYSTEMS**  
PAINTS, VARNISHES AND SPECIFIC SOLUTIONS  
DEDICATED TO THE FOOD AND HEALTH SECTORS



**ARREGHINI®**  
ITALIAN PAINTS SINCE 1950



## HEALTH IS A PRIORITY

CAP Arreghini's commitment is to protect health through a proposal of specific solutions for the food and health sectors, but also for accommodation and leisure facilities.

In food processing and healthcare environments, hygiene, cleanliness and safety are priorities and must be constantly monitored to ensure the health of consumers, facility guests and operators.

The choice of paints for use in food and hospital facilities must meet specific requirements and criteria, such as quick-drying, absence of harmful substances, ease of

cleaning and durability superior to normal paints.

These requirements have led CAP Arreghini's research to use high quality raw materials and nanotechnologies to create solutions that improve the healthiness of indoor environments where high levels of hygiene and cleanliness are required in compliance with current standards.

# USING COLOUR TO ENHANCE HARMONY AND SAFETY IN INTERIORS



In both the health and food sectors, it is of paramount importance to make indoor environments pleasant and safe. Careful use of colour can change the appearance of spaces, improve the perception of volumes, arouse positive emotions and sensations by paying close attention to the right choice of contrasts and colour tones and taking into account the degree of lighting present. Colour can also play a key role in enhancing the safety of indoor environments, becoming a kind of behavioural manual.

## COLOUR AS HARMONY

In any room, the choice of colours contributes more than anything else to the overall effect and helps to create harmony in the room. Colour also has the ability to change the environment, attract attention, improve wellbeing, induce calmness, but also energy and emotion. Sometimes unsuitable colour combinations can make us perceive spaces in the wrong way and even influence our mood. It is therefore important, during the design phase, to pay particular attention to the choice of colours and different shades, taking into account the type of place and its use.



## COLOUR AS A SAFETY FACTOR

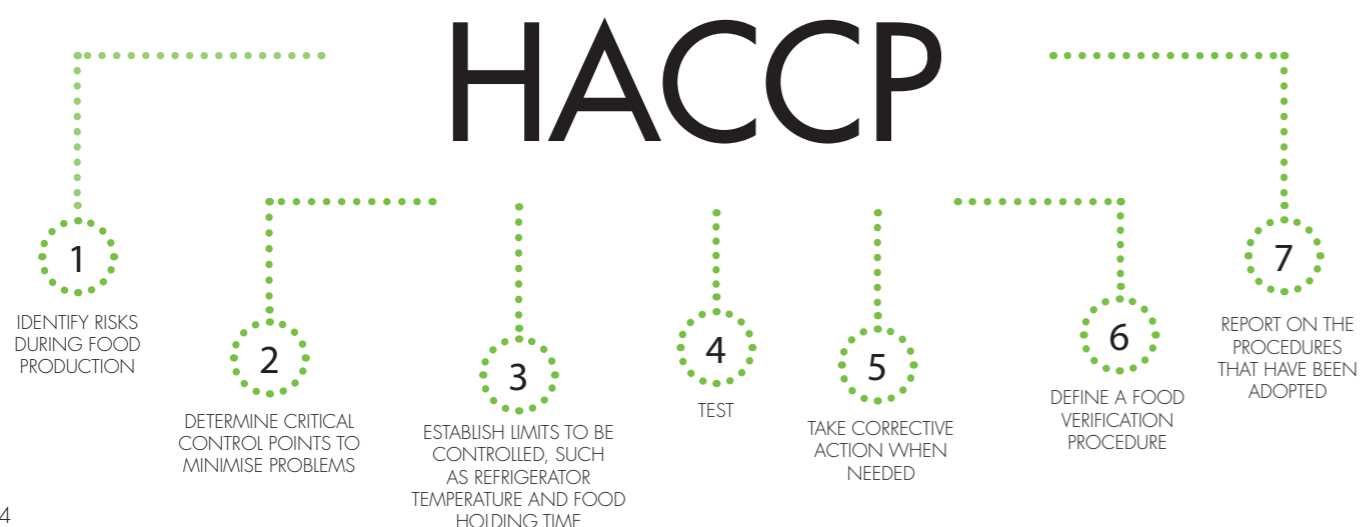
In addition to its aesthetic function, colour is also fundamental to improving the safety of the workplace or public spaces, as it is used to mark objects and areas with a high safety risk. Indeed, the use of combinations and contrasts improves the perception of space and helps alertness, aspects that must be taken into account in the development of interior signage, route markings and emergency exits. In order to make the safety signs recognisable to everyone, it is important to define a standard at the design stage, consisting of a predefined set of colours, which can be used in any position and which makes the message explicitly clear and easy to identify for those who live or work inside the building.



# CLEANING AND SANITISING INDOOR ENVIRONMENTS TO PROTECT PEOPLE

## WHAT HACCP IS AND HOW IT WORKS

HACCP is the abbreviation for Hazard Analysis Critical Control Points, a system of self-hygiene control of operators in the food and production sector, introduced in Europe in 1993 with Directive 43/93/EEC and adopted in Italy with Legislative Decree 155/97. Currently the adopted regulation is EC 852/2004. The HACCP system is based on seven fundamental principles:



HACCP is a prevention protocol for the occurrence of hygiene and health problems with the important aim of protecting consumer health.

In order to ensure that this protocol is applied, the legislation stipulates that, in the event of failure to apply or incorrect application of the HACCP self-control plan, penalties are provided for, which may vary according to the seriousness of the act.

## WHICH ENVIRONMENTS TO TREAT

For the design, construction and maintenance of environments in the health care and food sector, the principles of HACCP are applied, according to the European procedures in Reg. EC 852/2004. Safety legislation obliges establishments to produce a self-control manual which must contain all the information concerning the hygiene and health plan adopted by the company based on the HACCP system.

Specifically, surfaces in contact with food handling must be made of non-toxic, smooth and washable materials, easy to disinfect and clean, and resistant to attack by mould and bacteria.

The walls must be made of strong, durable, non-absorbent, non-toxic material that is smooth and easily washable up to a suitable height for cleaning purposes. Ceilings and false ceilings must be easily accessible, to ensure proper hygiene, and treated with washable, non-absorbent material that prevents the accumulation of dirt and the formation of unwanted mould. Windows and doors must be made of easily sanitised materials and their use must prevent the accumulation of dust and dirt. Hygiene levels in the healthcare sector are very similar to those required in the food sector and are aimed at ensuring the best quality of life for guests and operators by reducing the risk of infection and generally preventing hygiene problems.

The environments and facilities covered by the legislation are:

KITCHENS  
COLD ROOMS  
BAKERIES  
ICE CREAM PARLOURS  
OIL MILLS  
DAIRY FACTORIES  
BUTCHERIES  
FISH SHOPS  
SUPERMARKETS  
RESTAURANTS  
PUBS  
FOOD SHOPS  
BATHING ESTABLISHMENTS

Specifically, in the health sector, we refer to facilities such as:

HOSPITAL PREMISES  
CLINICS  
ANALYSIS LABORATORIES  
NURSING HOMES  
PHYSIOTHERAPY AND REHABILITATION CENTRES

But also facilities with a high and prolonged human presence such as:

RETIREMENT HOMES  
SCHOOLS  
UNIVERSITIES  
PUBLIC OFFICES  
LEISURE CENTRES  
DETENTION CENTRES



# HACCP CERTIFIED WATER BASED WALL VARNISH FOR INTERIOR AND EXTERIOR USE



In compliance with the standard, the use of the correct paint system is important, as an interior paint with certain characteristics can contribute better than another to ensuring hygiene and health within a room. As a general rule, the paints used should be smooth, washable, abrasion-resistant, non-toxic, easy to disinfect and clean, and resistant to the growth of mould and bacteria. These characteristics are guaranteed by the certification of compliance with the HACCP principles, Reg. EC 852/2004.

## CAP ARREGHINI HACCP CERTIFIED SOLUTIONS K81 LINE - WALL VARNISHES FOR INTERIOR AND EXTERIOR USE

The K81-varnishes line is the result of CAP Arreghini's technology in the sector of water-based varnishes for interior and exterior use, formulated with a low content of VOCs and harmful volatile substances, HACCP and class A certified and LEED® qualified, (Leadership in Energy and Environmental Design), recommended for the creation of environmentally friendly structures with materials belonging to the LEED® standard of environmental sustainability.

The K81 Topcap varnishes represent excellence in terms of technical application performance according to the

parameters of resistance to abrasion and disinfectants, coverage, whiteness, yield, ease of application and absence of odour.

Indoors, they can be applied directly to new or previously painted wall substrates after removal of detaching material, but also to other substrates such as plasterboard and smoothed surfaces.

The K81 Topcap varnishes are extremely versatile and can be tinted with a tinting machine.

## ENAMELS K81 TOPCAP

WATER-BASED WALL PAINTS FOR INTERIOR AND EXTERIOR USE



Highly cleanable, water-repellent, highly opaque, dust-proof, low VOC wall paints for interior and exterior use, suitable for meeting the requirements of Regulation (EC) No. 1082/2008. 852/2004/EC.

**WASHABILITY:** Resistant to wet abrasion, class 1 according to UNI EN ISO 11998.

**YIELD:** 7-9 m<sup>2</sup> /l per coat.

- Odourless
- Low environmental impact

### K81 TOPCAP LUCIDO



### K81 TOPCAP SATIN



### K81 TOPCAP OPACO



**COVERAGE:** Good covering power (white), class 3 according to EN ISO 6504-3

**OPACITY:** (white) gloss 60-70, Internal Method PF6

**COVERAGE:** Good covering power (white), class 2 according to EN ISO 6504-3

**OPACITY:** Gloss 20-30, Internal Method PF6

**COVERAGE:** Good covering power, class 2 according to EN ISO 6504-3

**OPACITY:** Gloss 5-10, Internal Method PF6



# HACCP CERTIFIED WATER-BASED ENAMELS FOR METAL, WOOD AND PLASTIC



## CAP ARREGHINI HACCP CERTIFIED SOLUTIONS POWERCAP WATER-BASED ENAMELS FOR METAL, WOOD AND PLASTIC

Powercap water-based varnishes from the LASURCAP range are products for interiors and exteriors, suitable for protecting structures in iron, wood and plastic, with innovative technology, formulated with a low content of VOCs and harmful volatile substances, HACCP certified and LEED® qualified, (Leadership in Energy and Environmental Design), recommended when building ecological structures with materials belonging to the LEED® standard of environmental sustainability.

Powercap varnishes have exceptional, long-lasting protective performance, excellent abrasion and disinfectant resistance, coverage, yield, whiteness and odourlessness. On new interior surfaces or products, thanks to their special formulation, they adhere directly to galvanised steel, aluminium, light alloys and plastics. Powercap varnishes are ready-to-use, extremely versatile and can be tinted with a tinting machine.

## ENAMELS POWERCAP

WATER-THINNABLE ACRYLIC-POLYURETHANE ENAMELS FOR METAL, WOOD AND PLASTIC



Innovative technology varnishes with outstanding protective performance. They adhere directly to galvanised steel, aluminium and light alloys and meet the requirements of EC Reg. 852/2004/EC.

**WASHABILITY:** Resistant to wet abrasion, class 1 according to UNI EN ISO 11998.

**YIELD:** 9-11 m<sup>2</sup> /l per coat.

- Odourless
- Low environmental impact

### POWERCAP LUCIDO



### POWERCAP SATINATO



### POWERCAP OPACO



**COVERAGE:** Very good covering power (White), class 1 according to EN ISO 6504-3

**OPACITY:** Gloss  $\geq 70$  and  $\leq 75$ , Internal Method PF6

**COVERAGE:** Very good covering power (White), class 1 according to EN ISO 6504-3

**OPACITY:** Gloss  $\geq 30$  and  $\leq 40$ , Internal Method PF6

**COVERAGE:** Very good covering power (White), class 1 according to EN ISO 6504-3

**OPACITY:** Gloss  $\geq 10$  and  $\leq 15$ , Internal Method PF6



# ANTIBACTERIAL WATER-BASED PHOTOCATALYTIC INTERIOR PAINT



## PHOTOCATALYTIC PAINTING: A VALUABLE ALLY IN THE DAILY FIGHT AGAINST POLLUTION

Today's world has started a process of raising awareness regarding the issue of air pollution: the problem of air quality is an increasingly subject we hear about every day.

Generally, when people talk about air pollution, they think of traffic in big cities, smog produced by cars and large trucks. Contrary to popular belief, the contribution of residential heating to air pollution in our cities is close to, or even exceeds, that of the transport sector. All of this is detrimental to the quality of the air we all breathe, not just outside but also within the environments where we spend around 80% of our daily time.

The concentration of fine dust and pollutants can be up to

five times higher in indoor air, as outdoor pollutants are trapped and accumulate indoors.

To provide a concrete response, CAP Arreghini's research has used nanotechnology to create solutions capable of improving air quality by developing Bioclean Active, a paint that, thanks to its composition, has the dual function of anti-pollutant and anti-bacterial.

## BIOCLEAN ACTIVE

MATT WATER PAINT FOR INTERIOR USE



Antibacterial, self-cleaning, anti-mould, photocatalytic water-based paint for interior use, which, thanks to its composition, performs the dual function of:

- Anti-pollutant, as it uses the photocatalytic action of nanomolecular titanium dioxide which, when activated by light, promotes the decomposition of harmful substances, preventing their accumulation and converting them into harmless substances. This process also prevents dirt from pollution from adhering to the treated surfaces, keeping the wall white and clean for longer. Bioclean Active is formulated to work with indirect sunlight and artificial light.
- Anti-bacterial against moulds, microbes and bacteria: thanks to its photocatalytic action and the additive inside, it counteracts the proliferation of moulds, microbes and bacteria, thus preventing the formation of bad odours.



Because of its purifying and sanitising action, Bioclean Active is suitable for use in public and highly frequented private environments where an effective and continuous change of air is not possible. Anti-pollution, sanitising and long-lasting photocatalytic action.

**WASHABILITY:** Good resistance to wet abrasion, class 3 according to UNI EN ISO 11998

**YIELD:** 9-11 m<sup>2</sup> /l per coat

**COVERAGE:** Good covering power, class 2 according to EN ISO 6504-3

**OPACITY:** Gloss < 10 according to EN ISO 2813



**POLLUTANTS:**  
MOULDS  
BACTERIA  
BAD SMELLS

**COMPOUND DERIVATIVES:**  
ODOURLESS  
COLOURLESS  
CLEANABLE

### PHOTOCATALYTIC INTERIOR PAINT

The titanium dioxide (TiO<sub>2</sub>) contained in the photocatalytic paint, through the action of sunlight or artificial light, is able to break down organic pollutants and dirt deposits present on the surface, transforming them into harmless substances and environmentally friendly compounds.

APPLICATION SYSTEMS: PRODUCT SELECTION GUIDE

|                                     |                     |                           | HACCP SYSTEM<br>FOR INDOOR USE |             |            |            |
|-------------------------------------|---------------------|---------------------------|--------------------------------|-------------|------------|------------|
|                                     |                     |                           | STEP 1                         | STEP 2      | STEP 3     | STEP 4     |
| SURFACE<br>TYPE                     | SUBSTRATE<br>STATUS | ASPECT TO BE<br>ADDRESSED | SURFACE<br>PREPARATION         | I LAYER     | II LAYER   | III LAYER  |
| Plasters                            | new                 | -                         | clean the surface              | K81 TOPCAP  | K81 TOPCAP | K81 TOPCAP |
| Plastering/plasterboard             | maintenance         | good condition            | clean the surface              | K81 TOPCAP  | K81 TOPCAP |            |
|                                     |                     | presence<br>of mould      | sanitise with A1-B1-C1         | K81 TOPCAP  | K81 TOPCAP |            |
| Plastic, aluminium, light<br>alloys | new                 | -                         | sanding                        | POWERCAP    | POWERCAP   |            |
|                                     | maintenance         | old enamel                | sanding                        | POWERCAP    | POWERCAP   |            |
| Galvanised iron                     | new                 | -                         | degreasing                     | POWERCAP    | POWERCAP   | POWERCAP   |
|                                     | maintenance         | old enamel                | sanding                        | CHROMOCAP W | POWERCAP   | POWERCAP   |
| Metal                               | new                 | -                         | degreasing                     | CHROMOCAP W | POWERCAP   |            |
|                                     | maintenance         | old enamel                | sanding                        | POWERCAP    | POWERCAP   | POWERCAP   |
|                                     |                     | presence<br>of rust       | sanding                        | CHROMOCAP W | POWERCAP   | POWERCAP   |
| Wood                                | new                 | -                         | sanding                        | OPAKITE W   | POWERCAP   |            |
|                                     | maintenance         | old enamel                | sanding                        | POWERCAP    | POWERCAP   |            |

|                         |                     |                           | PHOTOCATALYTIC SANITISING<br>SYSTEM |                 |                 |
|-------------------------|---------------------|---------------------------|-------------------------------------|-----------------|-----------------|
|                         |                     |                           | STEP 1                              | STEP 2          | STEP 3          |
| SURFACE<br>TYPE         | SUBSTRATE<br>STATUS | ASPECT TO BE<br>ADDRESSED | SURFACE<br>PREPARATION              | I LAYER         | II LAYER        |
| Plastering/plasterboard | new                 | -                         | clean the surface                   | BIOCLEAN ACTIVE | BIOCLEAN ACTIVE |
|                         | maintenance         | good<br>condition         | clean the surface                   | BIOCLEAN ACTIVE | BIOCLEAN ACTIVE |
|                         |                     | presence<br>of mould      | sanitise with A1-B1-C1              | BIOCLEAN ACTIVE | BIOCLEAN ACTIVE |

In the presence of dust or chalking walls, it is advisable to clean the surface with a damp cloth beforehand. In the presence of oil and grease, it is recommended to clean and degrease the surface using specific products before painting. For all indications regarding the different types of substrate and application systems, please refer to the specific technical data sheet.

- Products mentioned:
- A1 Pigmented anti-mould wall disinfectant
  - B1 Anti-mould wall disinfectant
  - C1 Active anti-mould sanitiser
  - CHROMOCAP W Water-based anti-rust primer
  - OPAKITE W Pigmented water-based wood primer



TECHNICAL INDICATIONS



Can contribute to the LEED score of the building



Low emissions of harmful substances indoors



Regulation (EC) No 852/2004  
General rules on the hygiene of foodstuffs

This catalogue is for information purposes only and does not replace product data sheets. For the technical characteristics of the above-mentioned products and further information on the application cycle, please refer to the specific technical data sheet available on the website [www.caparreghini.it](http://www.caparreghini.it) or request it from your local CAP Arreghini dealer.

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