



PRODOTTI PROFESSIONALI  
PER L'EDILIZIA  
E IL RESTAURO

# MELZI edilizia e restauro

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## FLOOR SYSTEMS:

Finishes / Paints Two-component acrylic-isocyanate (Water)

## ***DUALENE AIC SMT W***

### Technical Data Sheet

#### DESCRIPTION AND FIELDS OF APPLICATION

Two-component, water-based paint with an acrylate-isocyanate resin (polyurethane) base for protecting floors, including outdoor, subject to pedestrian traffic and rubber-tyred vehicles. The product is not suitable for the treatment of floors subject to counter-pressure water and, in general, wet floors without specific treatment. The product is also suitable for the protection of wall surfaces where high washability is required, such as in the food industry (in compliance with EC Reg. 852).

Certified product according to UNI 11021:2002 Paints and varnishes - Products and systems for painting environments with presence of food (Cert. Istituto Giordano 306708 of 25/06/2013).

Available in glossy (70-75 gloss) and satin (20-25 gloss) versions.

In the treatment of surfaces of garages and car parks, in particular conditions (winter tyre wet and warm), to prevent possible detachment of the protective film, it is necessary to catalyse the product more to increase its resistance; the ratio in weight of catalysis increases from 100/15.6 to 100/20.

#### MAIN FEATURES

Excellent coverage, high strength, no yellowing; its adhesive properties allow it to be applied to a variety of surfaces. For floors subject to wetting (food industry), ramps, consider using the rough anti-slip PAV version. The protective film prevents oil and water from penetrating into the flooring, giving good chemical resistance to the treated substrate.

#### APPLICATION DATA

The substrate must be clean, free of substances that impede the adhesion of the product (waxes, silicones, oily traces), compact and very important dry. The presence of water in the flooring, if not adequately treated, may cause the coating to detach. When treating surfaces that have already been painted, provided that the old coating is well anchored to the substrate, the product must be sanded down; in doubtful cases, first carry out a sampling to check adhesion or remove the previous product.

New cementitious substrates must be cured for at least 40 days. Absorbent substrates must be previously treated with DUALENE AIC IMC W primer (see technical data sheet). Very smooth substrates or those with deeply absorbed oily substances must be roughened by means of suitable mechanical operations (shot-peening, milling, sanding).

Ceramic substrates must be treated by acid etching with MONOPOL PL 06 and DUALENE EPX FL epoxy primer (see technical data sheets).

Base and hardener must be mixed thoroughly before use, if possible mechanically.

The product can be applied without dilution. If necessary, adjust the fluidity with max. 5% by volume of water in the first coat only. Do not dilute too much to avoid reducing the final thickness and thus the performance of the coating.

The application is carried out by roller, brush, spray and airless. When the primer has dried, preferably within 24 hours, apply the first coat of topcoat. Regardless of the application system used, wait for it to dry completely before applying the next coat. The adhesiveness of the product allows the final coat to be applied even after a few days from the application of the previous one; if the overlapping interval is longer, sand lightly the underlying layer.



To clean tools, use water immediately after use.

Operate at temperatures between 10-30°C (use below 10°C prevents the catalysis reaction), even of the substrate and with R.H. < 80%. Use at temperatures close to the minimum application temperature may result in a duller appearance.

For the final coat, use products from a single batch to avoid slight colour differences.

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### YIELD

Yield varies according to the roughness and absorption of the substrate. The minimum thickness of dry film to be deposited for each coat in order to obtain good protection must be 50 microns. On average this is obtained by treating about 10 of product. The finished cycle foresees a total dry film thickness of 100 microns, obtained by applying two coats (total consumption 5 m<sup>2</sup>/L).

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### TECHNICAL DATA

Mixture ratio by weight (B.P./Har.)	86.5/13.5 (100/15.6)
Volumic mass	1.22 kg/L
Dry residue by weight	62%.
Dry residue by volume	52%.
Pot-life at 22°C approx.	6 h
Hardening at 22°C to touch	6 h
complete	8 days
Walkability	min. 48 h with caution
Abrasion resistance (UNI EN ISO 7784-2 - CS 10 - 1 kg)	1000 rpm<50 mg
Stability in original packaging	12 months

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VERSION 18/12. Product for professional use.  
The user must assess whether the product is suitable for use in terms of type and method of use, on which the final performance depends.  
This sheet replaces and cancels the previous ones