



MELZI edilizia e restauro

Melzi sas di Melzi Luigi & C. Via S. Bellino 28/A - 35020 ALBIGNASEGO (PD) – tel. 049/691966 – Fax 049/690157 – C.F./P.I 02005420282
www.melzi.it E-mail: info@melzi.it

FLOOR SYSTEMS:

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

DUALENE AIC PAV W

Technical Data Sheet

DESCRIPTION AND FIELDS OF APPLICATION

Two-component, water-based acrylic-isocyanate resin (polyurethane) paint for protecting floors, including outdoor floors, subject to pedestrian traffic and rubber-tired vehicles. Filled product with anti-slip properties, particularly suitable for industrial environments with work cycles that keep the floor wet. Available in versions with anti-slip filler size (max. head of curve) of 0.15 and 0.30 mm. The neutral version allows the treatment of substrates whose colouring is to be kept visible.

The product is not suitable for treating substrates subject to counter pressure water and generally wet without specific treatment.

MAIN FEATURES

The fillers used ensure the coating is highly resistant to abrasion, making it suitable for the treatment of surfaces subject to wear or which may become slippery due to particular conditions (presence of water, condensation, inclination). The protective film prevents oil and water from penetrating into the flooring, giving good chemical resistance to the treated substrate.

The product has a strong adhesive capacity. The material reaches its maximum mechanical strength approx. 10 days after application at 25°C.

Abrasion resistance and anti-slip properties are direct consequences of the roughness of the coating. This can lead to dirt pick-up, which is higher in the rougher version. To reduce this, the surface can be treated with specific transparent paints or by using DUALENE AIC SMT W for the final coat, which partially reduce the roughness and facilitate cleaning, without excessively reducing the anti-slip properties.

APPLICATION DATA

The substrate must be clean, free of substances that may 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, it is necessary to first carry out a sampling to check adhesion on 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 intervention (shot-peening, milling, sanding). Ceramic substrates must be roughened by mechanical abrasion and/or matted by acidification with MONOPOL PL 06, then treated with 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 clean water. Do not dilute the product 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 the finish. Regardless of the application system used, wait for



complete drying before applying the next coat the next layer. The adhesiveness of the product allows the application of the final coat even after 48-72 hours from the application of the previous one.

To clean tools, use water immediately after use.

Work at temperatures between 10-30°C (use below 10°C prevents the catalysis reaction), even of the substrate and with R.H. < 80%.

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

YIELD

Yield varies according to the roughness and absorption of the substrate. The minimum thickness of dry film to be applied for each coat in order to obtain good protection must be 70 microns. On average, this is obtained by treating approx. 8-10 m²/L of product. An optimum coating should have an overall dry film thickness of not less than 120 microns, obtained by applying two coats with a total average yield of 5 m²/L. A third coat may be required under heavy wear conditions..

TECHNICAL DATA

Mixture ratio by weight (B.P./Har.)	89.5/10.5 (100/11.7)
Density	1.35 kg/L
Dry residue by weight	73%
Dry residue by volume	60%
Pot-life at 22°C approx.	4 h
Hardening at 22°C to touch	4 h
complete	8 days
Walkability	min. 48 h with caution
Abrasion resistance (UNI EN ISO 7784-2 - CS 10 - 1 kg)	1000 rpm < 40 mg
Anti-slip characteristics:	
BCRA coefficient of friction μ (versions 0,15-0,30)	
dry-leather	0,70
wet-rubber	0,90
DIN 51097 inclination angle (barefoot wet areas)	
0,15	12,2 class A
0,30	16,3 class A
DIN 51130 inclination angle	
0,15	21,6 class R11
0,30	30,0 class R12
Min. storage temperature (frost resistance)	> 5°C
Stability in original packaging	12 months

VERSION 21/12. 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