

EDMOFLOOR AP 300

Latest generation solvent-free two-component water-based polyurethane binder with acrylic modification, highly elastic and non-yellowing for indoor and outdoor use.



Product identification

EDMOFLOOR AP 300 is a binder based on latest generation water-based two-component polyurethane resins, solvent-free, resistant to UV and chemical aggression, with acrylic modification which, when the product is dry, increases its resistance to water, climate cycles and to wear due to friction.

Its excellent flexibility and crack-bridging capacity make it resistant to deformations that could occur in the presence of settlements, deflections of floors and thermal expansions.

EDMOFLOOR AP 300 is suitable in situations where it is necessary for the surface to be walkable or driveable, where high elasticity is required and in the presence of cracks or where there is a risk of fracturing.

EDMOFLOOR AP 300, thanks to its solvent-free formulation, allows the operator to work safely by significantly reducing exposure to chemical agents harmful to health.

EDMOFLOOR AP 300 is formulated with raw materials free of solvents, formaldehyde and with very low VOC emissions, as well as being quartz and APEO FREE.

Preparation of the support

- ❖ Concrete surfaces must be free from rising damp and the humidity of the support must not exceed 4%, as well as not having salty efflorescence, dust, grease, loose parts and any situation which would compromise good adhesion.
- ❖ Ensure that the concrete support has a minimum compressive strength of 25 N/mm² and 1.5 N/mm² tensile strength.
- ❖ Carefully remove all traces of dirt and make the surface rough and absorbent, then vacuuming up the surface dust.
- ❖ Prime the support with PRIMER EA in the available grain sizes based on the thicknesses and roughness you want to obtain, applying it evenly with a smooth trowel, then while the surface is still fresh, spread SILICEA in the desired grain size in order to obtain perfect adhesion of the subsequent coating.

Ways of use

- ❖ Combine the two components A and B at the time of use in the proportions indicated in the technical table below.
- ❖ Mix component A and add the contents of component B, mix everything with a suitable mixer at low speed for at least 2 minutes and until homogenised.
- ❖ Add 20-30% by weight of SILICEA or INERT COLOR (the latter if you want a colored finish) in the available grain sizes based on the thicknesses and roughness you want to obtain and mix until you obtain a homogeneous mixture.
- ❖ Pour the mixture onto the surface and distribute it evenly using a notched spatula and then pass it with a bubble-breaking roller.
- ❖ If you want to obtain a non-slip finish, fresh on fresh, it is advisable to spread EDMEC SILICEA or INERT COLOR evenly by seeding with an appropriate grain size based on the roughness you want to obtain.

Warnings and precautions for use

- ❖ Comply with current regulations and national provisions.
- ❖ Do not dilute with solvents or water.
- ❖ Do not apply on damp substrates or those subject to rising humidity.
- ❖ Do not apply on surfaces that are crumbly, dusty or contaminated by oil, grease and dirt in general.
- ❖ Do not expose the product to strong heat sources.
- ❖ Do not mix the components partially or differently from what is indicated in the technical table below.

- ❖ Do not use space heaters with hydrocarbon fuels as the carbon dioxide and water vapor released could compromise the correct cross-linking of the coating.
- ❖ In case of contact with aggressive chemicals, remove them immediately from the surface.
- ❖ Use specific products for cleaning the covering.
- ❖ The difference between the temperature of the support and the dew point must never be less than 3°C.
- ❖ Protect from water for at least 24 hours.
- ❖ For any further information, contact our EDMEC technical service.
- ❖ Product for professional use

Indication for preparation and safe installation

Part B is irritating to the eyes.

Both parts A and B can cause sensitization in contact with the skin in predisposed individuals.

During application, it is recommended to use gloves and protective glasses and to use the usual precautions for handling chemical products.

Rinse with plenty of water in case of contact with eyes or skin and consult a doctor.

Do not dispose of the product in the environment.

It is recommended to consult the latest version of the safety data sheet for further information.

Cleaning

Cleaning of tools and any product residues from surfaces must be carried out with water on fresh product.

Once hardened, the product can only be removed mechanically.

Packaging

- ❖ Component A: 13 Kg
- ❖ Component B: 1,3 Kg

<u>Description</u>	<u>Data (+23°C & 50% U.R.)</u>
<u>Density</u>	Component A: 1,50 Kg/L ± 5% Component B: 1,10 Kg/L ± 5%
<u>Density of the mixture</u>	1100 Kg/m ³ ± 5%
<u>Mixing ratio</u>	Component A: Component B = 10: 1
<u>Duration of the dough</u>	~ 30 min.
<u>Mixture viscosity</u>	4500 mPa·s
<u>Dry residue</u>	~ 100 %
<u>Operating temperature</u>	+8°C ÷ +35°C
<u>Indicative yield</u>	1,5 – 2,0 Kg/m ² depending on the support
<u>Color</u>	Component A: light grey Component B: yellow straw
Characteristics of the A+B mixture	
<u>Set to light foot traffic</u>	8 h
<u>Ready for use</u>	16 h
<u>Dust-free drying</u>	6 h
<u>Shore A hardness (28 days)</u>	70
<u>Tensile strength applied neat after 7 days</u>	8 N/mm ²
<u>Tensile strength fillerized with 30% of SILICEA 0.3 after 28 days</u>	3 N/mm ²
<u>Tear strength applied neat after 7 days</u>	32 N/mm
<u>Tear strength fillerized with 30% of</u>	27 N/mm

<u>SILICEA 0.3 after 28 days</u>		
<u>Elongation after 7 days</u>	750%	
<u>Elongation fillerized with 30% of SILICEA 0.3 after 28 days</u>	450%	
<u>Resistance to thermal shock</u>	$\geq 1,50 \text{ N/mm}^2$	EN 13687-5
<u>Crack bridging ability</u>	A5 (-10°C; B4.2 (+23°C); B4.1 (-20°C)	EN 1062-7
<u>Resistance to impact</u>	Class III	EN ISO 6272- 1
<u>Abrasion resistance</u>	< 3000 mg	EN ISO 5470-1
<u>Permeability to CO₂</u>	$S_D > 50 \text{ m}$	EN 1062-6
<u>Capillary absorption and permeability to water</u>	$< 0,1 \text{ kg}\cdot\text{m}^{-2}\cdot\text{h}^{-0,5}$	EN 1062-3
<u>Permeability to water vapour</u>	Class V ₃	EN ISO 7783-2
<u>Direct traction adherence</u>	$\geq 8,0 \text{ N/mm}^2$	EN 1542
<u>Fire reaction class</u>	C – s1	EN 13501-1
<p><i>The information contained in this sheet is the result of knowledge and tests available at the date of publication. DM SRLS UNIPERSONALE does not assume any responsibility for damage to persons or property resulting from improper use of such information and reserves the right to modify the data without notice.</i></p>		

For additional technical information:

EDMEC D.M.

Via Scala n°628/D

41038 San Felice s/P (MO)

Part. Iva e Cod. Fisc.: 03728460365

info@edmec.it / www.edmec.it