

# ISOMAT AG 80-2K

## Transparent varnish for protecting surfaces from graffiti

### Description

ISOMAT AG 80-2K is a transparent, two-component, polyurethane varnish, used for the protection of surfaces from graffiti and environmental pollutants. It forms a membrane which does not allow the graffiti paint (spray, markers) to penetrate into the substrate and thus makes cleaning easy. The membrane formed is waterproof, unaffected by UV radiation, does not turn yellow and offers very good mechanical and chemical resistance. It also shows great resistance to aging and weather conditions.

### Fields of application

ISOMAT AG 80-2K is applied on surfaces made of concrete, plaster, stone, metal, marble, wood etc., in order to protect them from graffiti or environmental impurities. It also enables removing posters from them. It is ideal for building facades, statues, monuments, metal signs, etc.

### Technical data

#### 1. Properties of the product in liquid form

Form:	two-component, polyurethane resin
Color:	transparent, glossy
Density (A+B):	1.00 kg/l
Viscosity	200 mPa·sec (at +23 °C)
Mixing ratio (A:B):	100:30 by weight
Pot life:	1.5 h (at +23°C)

#### 2. Properties of the membrane

Tensile strength: (ASTM D412)	38 N/mm <sup>2</sup>
Water impermeability: (DIN 1048-5)	5 atm
Capillary water absorption: (EN 1062-3)	0.02 kg/m <sup>2</sup> ·h <sup>0.5</sup>

Adhesion to concrete: 2.9 N/mm<sup>2</sup>  
(EN 1542)

Artificial aging:  
(EN 1062-11,  
after 2000h) Pass (no blistering,  
cracking or detachment)

### Directions for use

#### 1. Substrate preparation

The substrate must be dry and free from dust, grease, old stains, etc. A surface that is already covered with graffiti can be cleaned with hot water under pressure or the special cleaning agent ISOMAT GRAFFITI REMOVER.

#### 2. Application

Components A (resin) and B (hardener) are packed in two separate containers, at a predetermined mixing ratio by weight. The whole quantity of Component B is thoroughly mixed with the whole quantity of Component A with a low-speed mixer (300 rpm) for about 2-3 minutes. It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener. After mixing, it is recommended to let the mixture rest for a few minutes before the application, in order to help the entrapped air escape.

ISOMAT AG 80-2K is applied with a roller, brush or by spraying in two layers. The second layer may be applied within 24 hours from the first one, depending on the weather conditions.

Tools are cleaned with the special solvent SM-16, while ISOMAT AG 80-2K is still fresh.

The surface that has been treated with ISOMAT AG 80-2K may be easily cleaned with the special cleaner ISOMAT GRAFFITI REMOVER.

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Caution: ISOMAT AG 80-2K obtains its anti-graffiti properties within 7 days from its application, which is actually the time it takes to fully harden. In case the surface which has been treated with ISOMAT AG 80-2K is painted with graffiti, before the film has entirely cured, it should be cleaned after 7 days have passed since the application of ISOMAT AG 80-2K. The use of strong cleaning agents before the film has cured, may affect its properties or dull its appearance.

## Consumption

Consumption: 70-120 g/m<sup>2</sup> per layer, depending on the absorptivity of the substrate.

## Packaging

1 kg and 5 kg containers.

## Shelf-life/Storage

24 months from production date, if stored in original sealed packaging, in areas protected from moisture and direct sun exposure. Recommended storage temperature between +5°C and +35°C.

Component B should be kept hermetically sealed in the original package, as it may polymerize upon contact with air.

## Remarks

- Surfaces with entrapped moisture have to be completely dry before the application of ISOMAT AG 80-2K.
- Temperature during the application and hardening of the material should be between +8°C and +35°C.
- Substrate moisture has to be <4% and air humidity <65%. High air humidity may affect the polymerization of ISOMAT AG 80-2K.
- In case it is expected to rain the next 48 h or the temperature is expected to drop below +8°C, the application should be postponed.

## Volatile Organic Compounds (VOC)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory j, type SB is 500 g/l (2010) for the ready-to-use product. The ready-to-use product ISOMAT AG 80-2K contains a maximum of 500 g/l VOC.



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**EN 1504-2**

Surface protection products

Coating

Water vapor permeability: Class I (permeable)

Capillary absorption:  $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion:  $\geq 0.8 \text{ N/mm}^2$

Artificial weathering: Passes

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

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