

# PURCOAT

ACID-RESISTANT PROTECTIVE  
POLYURETHANE COATING



## DESCRIPTION

PURCOAT is a one-component, solvent-based, penetrating polyurethane protective coating. The product is semi-rigid and provides excellent adhesion and consolidating properties. PURCOAT is moisture-curing and thermally curing, vulcanising upon contact with the substrate and ambient humidity.

The product is suitable for application on damp and slightly wet substrates. PURCOAT provides high resistance against aggressive chemical agents such as acids, bases, salts, oils, carbon dioxide, hydrocarbons and solvents, ensuring a high level of surface protection.

## FIELDS OF APPLICATION

- Acid-resistant protection of sewer pipelines;
- Acid-resistant protection of concrete decks;
- Acid-resistant protection of concrete structures;
- Acid-resistant protection of road kerbs;
- Protection of damp and slightly wet surfaces;
- Chemical protection of industrial floors;
- Protection of oil and hydrocarbon recovery tanks;
- Protective coating of wastewater treatment tanks;
- Protective coating of leachate tanks;
- Anti-carbonation treatment;

## PRODUCT DATAS

Base	Solvent-based
Component system	One-component
Composition	Polyurethane resins
Appearance	Viscous liquid
Specific gravity	1.00 kg/L
Solid content	75.0%
Pot life	Approx. 180 minutes

## CONSUMPTION

Low chemical exposure: approx. 0.2 kg/m<sup>2</sup> applied in one coat.

Medium chemical exposure: approx. 0.35 kg/m<sup>2</sup> applied in two coats.

High chemical exposure: approx. 0.5 kg/m<sup>2</sup> applied in three coats.

Consumption values are based on application on smooth substrates in good condition.

Highly porous substrates, temperature, humidity and application methods may affect actual consumption.

## COLOUR

- Transparent.
- The product can be pigmented by adding B-Tech Pastamix.

## PACKAGING

- 1.0 kg
- 5.0 kg
- 28.0 kg containers.



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## TECHNICAL DATA

Parameter	Value	Standard
Abrasion resistance	900 mg	EN ISO 5470-1
CO <sub>2</sub> permeability	Sd 1225 m	EN 1062-6
Water vapour permeability	Class III	EN ISO 7783-1
Thermal shock resistance	3.5 MPa	EN 13687-5
Chemical resistance	No alteration	EN 13529
Water pressure resistance	No leakage	DIN EN 1928
Pull-off adhesion	3.89 N/mm <sup>2</sup>	EN 1542
Adhesion to concrete	2.2 ± 0.2 N/mm <sup>2</sup>	ASTM D 903
Hardness	>95 Shore A	ASTM D 2240

## CHEMICAL RESISTANCE

PURCOAT shows resistance to a wide range of chemical agents, including acids, bases, fuels, oils, solvents and industrial chemicals. For full details, refer to the chemical resistance table provided in the original Technical Data Sheet.

## APPLICATION

### COMPATIBLE SUBSTRATES

- Porous substrates;
- Concrete;
- Slippery concrete;
- Industrial flooring.

### SUBSTRATE PREPARATION

Correct substrate preparation is essential to ensure optimum performance and durability. Substrates must be clean, sound, cohesive and free from contaminants such as dirt, dust, oils, grease, paints, salt efflorescence, moss and vegetation.

Concrete substrates must be prepared by suitable methods such as sandblasting, shot blasting, mechanical scarification or bush-hammering, depending on the specific condition of the surface.

### PRODUCT PREPARATION

One-component product ready for use. Mixing is not required; however, gentle stirring with a low-speed mixer is recommended to ensure perfect homogeneity.

### PRODUCT APPLICATION

Apply PURCOAT using conventional methods such as brush, roller or airless spray. After substrate preparation, apply the product evenly.



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PRODUCT SHEET

## CLEANING EQUIPMENT

Clean all tools and equipment immediately after use with a suitable thinner (B-Tech Solvent). Once cured, the product can only be removed mechanically.

## STORAGE

Store the product in its original, unopened and undamaged containers in a dry place, away from heat sources, at temperatures between +5 °C and +25 °C. Maximum storage time: 12 months.

## WARNINGS

- Solvent-based product;
- Flammable product;
- Do not apply at temperatures below +5 °C;
- Do not apply if condensation is present on the substrate;
- Do not dilute with water;
- Do not dilute with unsuitable solvents;
- Do not apply if rain is forecast;
- Do not apply in fog or mist;

## HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

**For PROFESSIONAL USE ONLY.**

## LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website [btechitalia.eu](http://btechitalia.eu).



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