

POLFILL APF 843

BITUMINOUS WATERPROOFING EMULSION

GENERAL CHARACTERISTICS

POLFILL APF 843 is a bituminous emulsion with fillers, for waterproofing surfaces of most common structural elements and particularly concrete. A continuous, inflammable watertight film is formed after water evaporation, with excellent adhesion properties to the substrate. The dried film is resistant to dilute acid and alkali solutions. It is user-friendly as it does not contain organic solvents and is dissolved with water.

POLFILL APF 843 is used for waterproofing of vertical or horizontal concrete surfaces (e.g. terraces and sloped roofs, interior and exterior walls, basement walls), for regeneration of old bituminous coatings, for adhesion of insulating materials and as vapor barrier.

POLFILL APF 843 is compatible with polyurethane, polystyrene, concrete, light-weight concrete, asbestos cement, brick, stones, metal and plasterboard.

In its initial physical condition **POLFILL APF 843** is a thixotropic paste.

After all water-content has evaporated a watertight film is formed that is not influenced by most common salts and chemical agents contained in soil. It is attacked by solvent and mineral oils.

TECHNICAL DATA

<u>PROPERTIES</u>	<u>NOMINAL VALUE</u>	<u>TEST METHOD</u>
PHYSICAL APPEARANCE	THIXOTROPIC PASTE	OBSERVATION
COLOR	BROWN-BLACK	OBSERVATION
DENSITY	1.1 - 1.14 g/cm ³	Requirements according to ASTM D-1227 Type II
RESIDUE AFTER EVAPORATION	40 - 60 %	
WATER CONTENT	40 - 60 %	
ASH CONTENT OF RESIDUE	30 - 50 %	
WATER IMMERSION RESISTANCE	NO BUBBLES OR REEMULSIFICATION	Tests according to ASTM D-2939
FLOW RESISTANCE AT 100 °C	NO FLOW OR BUBBLES	
REACTION TO FIRE	NO IGNITION	
FLEXIBILITY AT 0 °C	NO CRACK	

PREPARATION- APPLICATION

Surfaces should be regular, dust free, clean from oils and foreign matter.

- It is cold applied in at least two layers by brush or spray gun. Each new layer is applied in a criss-cross pattern with respect to the previous one, when the latter is dry.
 - Reinforcement (e.g. polyester fabric or glass fleece) may be used between two successive layers to increase the mechanical properties of the final film.
-

CONSUMPTION

In the first layer, **POLFILL APF 843** is diluted with water up to 50%. For subsequent layers it is diluted with water up to 30%. In both cases consumption ranges between 0.4 - 0.6 kg/m² per layer depending on surface type and porosity.

Indicative consumptions for **POLFILL APF 843** depending on the application:

- Waterproofing of terraces: 3.6 kg/m²
 - Protection and waterproofing of walls: 1.5 kg/m²
 - Adhesion of insulation boards: 0.7 kg/m²
-

APPLICATION TOOLS

Tools are cleaned with water before the emulsion has dried or with gasoline in case it has already dried.

PACKAGING

In pails of 18 kg and drums of 220 kg.

STORAGE

Stored in protected areas where temperature is maintained above 0 °C. Preserved in sealed containers for over a year.

REMARKS

POLFILL APF 843 must not be applied during frost or when the temperature is below 5 °C.

CAUTION

Prolonged skin contact with **POLFILL APF 843** should be avoided.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
It should not be disposed to the ground but should be treated according to the relevant regulations.

For more information consult the material safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.