

AVIP TWIN

Rapid Setting Elastomeric Waterproofing Membrane With Catalyst

USAGE

AVIP Twin is a rubber modified bituminous emulsion that coagulates instantly with catalyst on dual-nozzle spraying application. The application speed, the unrestricted film thickness that we can create and the use of the material even in wet conditions, classify **AVIP Twin** in the high-tech products. The adhesion to all materials is excellent and retains its elasticity (> 1150%) even at temperatures below -20°C. Intended for high waterproofing requirements and specifications such as foundations and basement walls of high depth with a high-water table, bridges, tunnels, reservoirs, aquifer protection from landfills, cover cut etc., with very high application speed that can lead to an output of even 1.000m²/day.

COMPONENTS

Component A: Modified Bituminous Emulsion
Component B: Catalyst

APPLICATION

Before its application it is recommended that the surface is clear and free from rotten materials, dust, oils and lubricants. Large holes on the cementous application surface must be filled with Bituminous Mastic Sealant AVIP GUM. **AVIP Twin** is applied by special double-nozzle spraying equipment, together with catalytic solution. The application process is continuous with build-up to achieve a single coat until the specified film thickness is achieved. From the first nozzle Component A from **AVIP Twin** is sprayed and from the second nozzle Component B (Catalyst/TWIN R) is sprayed with a ratio Part A;Part B 5:1. Their "connection" is made on the application surface where a reaction takes place thus instantly creating the final waterproofing membrane. **AVIP Twin's** main advantages are firstly it can be applied even during light rainfall and even on very humid substrates. Secondly, we have no restrictions in the application

thickness. The characteristic thickness required is as follows: For landfilling basements up to 5 meters depth = 3-4mm, for 5-7 meters = 4-5mm, for 7-10 meters = 5-6mm. TWIN R is in solid form that is diluted in water in a proportion of 6,5%. For application of 1.000kg of **AVIP Twin**, you have to dilute 13kg of TWIN R in a barrel of 200kg water. The final membrane cures immediately after application, that means the moment it touches the application surface. It is though recommended to leave the final membrane for 24-48 hours in order to obtain its full mechanical properties. Also, it is recommended not to leave the final membrane exposed to immediate solar radiation for a long period of time. Do not walk on the freshly sprayed membrane as the adhesion to substrate may take place a few hours after spraying.

PACKAGING

Component A: IBC 1000kg
Component B: Pails of 13kg.

CONSUMPTION

For a dry layer of 1mm thickness = 1.50-2.00kg/m² of **AVIP Twin** is required, mostly depending on weather conditions.

STORAGE

You can use the product for two years after its date of production, kept in sheltered area, with temperature range of 5-35°C, not under sun exposure. Keep away from ice. Agitate the Component A from **AVIP Twin** if left for a long period of time. Part B is always ready for use.

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SAFETY

The material is not classified as dangerous. In case of contact with eyes and mouth, rinse with plenty of water and be addressed to a doctor by showing the product's label and M.S.D.S. Hands must be cleaned with water and soap after each application. Tools can be cleaned with water when the material is still wet. Do not pour it on the ground or water. Always follow the related rules. For additional info ask the MSDS of this material from the producer.

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TECHNICAL SPECIFICATION

Description	Rapid Setting Elastomeric Waterproofing Membrane With Catalyst
Color	Comp.A: Dark Brown, Comp.B: Transparent
Odor	Odorless
pH	~7 (25°C)
Crack bridging ability (EN 1062-7)	No failure was registered at 2.5mm width of crack
Water resistance (EN 15817)	No change in water colour occurred No separation of layers occurred
Flexibility at low temperature (EN 15813)	No cracking
Dimensional stability at high temperature (EN 15818)	No decline nor scattering caused by flow occurred
Resistance to compression (EN 15815)	46,4%
Elongation (ASTM 412)	> 1150%
Tensile strength (ASTM 412)	0.35 N/mm ²
Density	1,01-1,07 g/l
Spray mix ratio (Part A:Part B)	5:1