

Colorama DE9500 AQUAPROOF

Colorama AQUAPROOF is a heavy duty ceiling, façade elements, terrace and roofs elastic waterproof coating system, based on specially developed highly elastic & resilient UV resistant polyurethane-acrylic polymers, It is used as a liquid applied coating for crack-bridging, carbon oxides barrier, waterproofing membrane. Colorama AQUAPROOF is a multi-layer system ensuring proper build-up of the thickness, making it a reliable waterproofing system. The coating performance can be enhanced for large roofs, by providing a fiber mesh that is embedded or sandwiched between the coats.

Properties and Areas of Use

- Film thickness – Provides higher dry film thickness of about 1 mm in 2-4 coats with roller application.
- Suitability - Can be used as waterproofing membrane for flat and sloping roofs and as carbon oxides barrier for ceilings.
- Strength - Higher tensile strength, tear resistance & bond strength with cementations substrates.
- Resilience – Forms highly elastic & resilient coating so helps to withstand the structural movements.
- Durability – Resistant to rain, UV & weather conditions.
- Ease of application – Can be applied as supplied by roller, airless spray & squeegee.
- Primer – can be used as self primer after dilution with 25-40 % water.
- Weight addition – Light in weight does not add extra weight over the roof.
- Easy to recoat existing surfaces coated earlier with Colorama AQUAPROOF.

Technical Coating Data @ 25 °C

Finish	Semi-gloss
Color Range	White, Special colors available upon request
Solids Volume	50 ± 2%
Dry Film Thickness Range	100-1000 µm
Theoretical Spreading Rate	1 m ² / L @ 500 microns DFT (loss factors will apply in practice)
Surface Dry	1-2 h
Recoat Interval	6 hours minimum maximum, several months
Shelf Life	12 months (stored in a cool dry place)
VOC	23 g/L

Film Thickness and Spreading Rate :

	Minimum	Maximum	Typical
Film thickness, dry (µm)	500	1000	750
Film Thickness, wet (µm)	1000	2000	1500
Theoretical Spreading Rate (m ² /L)	1	0.5	0.75

Surface Preparation

- * Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- * Damaged or hollow portions, sharp edges, etc. must be cut and removed.
- * Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means.

Precautions & Limitations

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- Do not apply during rains.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment.
- Do not apply Colorama AQUAPROOF over expansion or moving joints unless joints are filled with recoatable sealant.

Technical Information

Solid Content (By Weight)	55 ±2%.
Hardness (Shore A) ASTM D 2240: 2002	80.00
Tensile Strength, N/mm ² ASTM D 412 : 2002	1.20
Elongation at Break, % ASTM D 412 : 2002	150% min.
UV Resistant - Accelerated ASTM G 154 : 2000	Excellent: No thermal degradation,
Weathering (1000 hours)	No cracking, chalking and discoloration
Adhesion Strength, N/mm ² ASTM D 4541 : 2002	1.00
Water Vapor Transmission ASTM E 96 : 2000	19 g/m ² /day

Cleaning Thinner :

Equipment should be cleaned immediately after use with water.

Drying time :

Drying times are affected by air ventilation, temperature, film thickness and number of coats.

Substrate Temp.	10° C	25° C	40° C
Surface Dry	6 h	2 h	1 h
Through Dry	12 h	4 h	2 h
Dry to recoat, minimum	24 h	6 h	4 h

The given data serve as guideline only. The actual drying time differs according to film thickness, ventilation, humidity and underlying paint system.

Typical paint system :

- AQUAPROOF Primer 1 x 50 μ .
- AQUAPROOF 4 x 250 μ (Waterproofing) 2 x 250 μ (Carbon oxides Barrier)

Storage :

Keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling :

Handle with care. Stir well before use.

Summary Safety Information :

- Avoid inhalation of spray mist and skin contact by the use of masks, gloves and other personal protection. Eyes should be cautiously washed with water or proprietary wash, and medical attention obtained. Skin should be thoroughly washed using a cleanser and soap and water.

The information given in this data sheet represents test results & practical experience obtained under controlled conditions, and are correct to the best of our knowledge. However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice.