

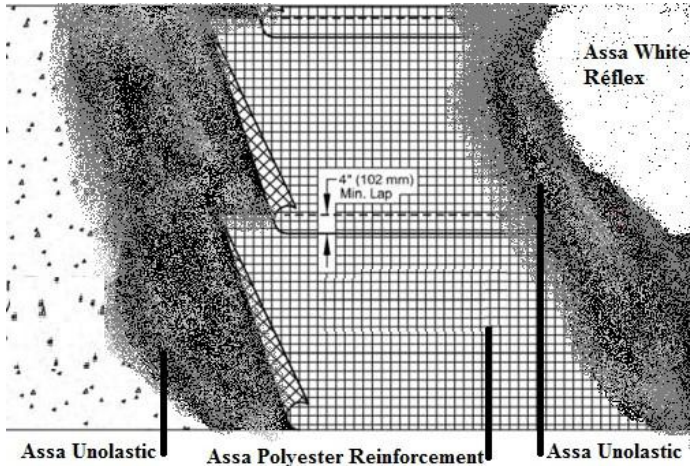


Specification Detail

Assa Monolastic

Application Over - STRUCTURAL CONCRETE

ASSA MONOLASTIC ROOF COATING
 HIGH PERFORMANCE ONE-COMPONENT
 WATER- BASED ELASTOMERIC BITUMEN
 WATERPROOFING PRODUCT



MATERIAL REQUIREMENTS PER 1,000 SQ. FEET

Assa Roof Primer PA-250	5 gallons
Assa Roof Cement PA-450 or PA-250 for all penetrations.	
Assa Monolastic.....	120-140 kilos
Assa Polyester Reinforcement	1,076 p/c roll
Assa Monolastic.....	100 kilos
Assa White UltraFlex.....	80 kilos

10 Year Warranty New Ecological Innovation

GENERAL. Assa Monolastic is a highly-reflective Cool Roof Coating System designed to provide an energy efficient, seamless, fluid applied roof coating system to new or existing Structural Concrete roofing as outlined in this specification. Fresh [new] concrete must be cured and dry.

APPLICATOR QUALIFICATIONS. Applicator shall have general knowledge and general understanding of roofing as well as all Assa Roofing Products for any given specified project. For all warranties, a firm, which has complete business stability and experience with Structural Concrete roofs shall perform the work in this section.

JOB CONDITIONS. To proceed with proper conditions, the applicator must be aware of the following: Curing time for all products is critical. Applicator must allow for sufficient cure time for each product. Be aware that outside temperatures will be a factor. Do not begin work if rain or heavy dew is expected within twenty-four to forty-eight (24-48) hours of application. Do not begin work if temperatures are expected to fall below 50°F during the duration of the job. Other environmental conditions such as humidity, mist, dew, extreme temperatures, and condensation can affect products in an adverse way. If ponding water is present in any area for more than 48 hours, remove with Assa Plano Raptic Maxi Self –Levelling Mortar.

APPLICATION. Thoroughly inspect the roof for any defects such as holes, cracks, etc. Holes or cracks larger than 1/8" must be repaired before coating application using Assa Monolastic or Assa Roof cement along with Assa Polyester Fabric.

Coat entire concrete substrate with Assa Roof Concrete Primer at a coverage rate of 1 gallon per 100 sq. ft. Assa Emulsion Roof Coating is too acceptable.

Apply base coat using Assa Monolastic Coating System (grey or black) at a coverage rate of 120-140 kilos per 1,000 sq. ft.

Apply a layer of Assa Polyester Fabric into the wet first coat and cover with other coat using Assa Monolastic Coating (grey or black) at a coverage rate of 100 kilos per 1,000 sq. ft.

Allow for proper curing time of 5-7 days (weather conditions may vary state to state).

Apply Assa UltraFlex Coating at the rate of 80 kilos per 1,000 square feet, which must be applied evenly in one heavy coat.

Allow a minimum of 12 hours drying time before allowing any foot traffic or inspections.

Components of the Assa Monolastic System are applied using a brush, roller, trowel, or airless spray.



FLASHING. All flashings and drip edges should be treated with **Assa Concrete Primer** and allowed to completely dry. Apply **Assa Monolastic** along with **Assa Polyester Fabric** and have a minimum dry film thickness of 60 mils at all flashing areas. Curbs are to be treated with **Assa Monolastic** along with **Assa Polyester fabric**; with a minimum overall width of 12" (6" on either side of the curb). Penetrations and all other flashings are to be flashed using **Assa Monolastic** along with **Assa Polyester Fabric**.

Assa Roof Cement is applied around the base of each penetration and extended 3" beyond on both sides and feathered. For high stress seam or overlap areas; apply a layer of **Assa Roof Cement** using a trowel. While **Assa Roof Cement** is still wet, **Assa Polyester Fabric** is embedded and a second coat of mastic is applied. Allow the detail to cure before proceeding.

ROOF PREPARATION. Surface to be repaired or coated must be clean, dry and free of dust, dirt, grease, wax, or other incompatible substances. Existing substrate must be securely attached. All necessary repairs shall be made to the existing roof according to Assa Roofing specifications details and guidelines. The **Assa Monolastic Coating System** is approved for application over Structural Concrete roofs having positive drainage.



ASSA MONOLASTIC IS A ONE-COMPONENT WATER-BASED ELASTOMERIC BITUMEN HIGHLY ADHESIVE WATERPROOFING PRODUCT, EASY AND QUICK TO APPLY, THAT CAN BE COATED WITH CEMENT MORTAR AND PAINT.

ASSA MONOLASTIC is used to waterproof - both vertical and horizontal -- concrete and metal surfaces, plasters, plasterboard, wood, cement based surfaces or plastered surfaces in general, or ceramic tiled floors and walls. It is used to waterproof wood, concrete and metal sheet roofs, balconies, terraces/flat roofs, foundations, bathrooms, saunas, showers and tricky parts (vases, flower pots). **ASSA MONOLASTIC** can be used as an elastic lining to waterproof concrete and protect it from aggressive atmospheric gases such as CO₂--SO₂.

WARRANTY. The applicator shall repair and/or replace any defective work found at the end of the job before any warranties will be issued. Application of the **Assa Monolastic Coating System** over Structural Concrete roofing, as described in this specification, will result in a coating or "membrane" that is durable, reflective, mildew and discoloration resistant. Upon **Assa** inspection, a properly applied **Assa Monolastic Coating System** is eligible for **Assa Roofing Products' Limited Ten Year (10) Materials Warranty**.

Assa Material's warranties up to a term of **10 years for reinforced systems utilizing **Assa Monolastic** at 22 kilos/sq and White Réflex at 8 kilos/sq minimum application rate (**May be renewable upon inspection and recoating)

DILUTION OF ANY ASSA MONOLASTIC PRODUCT USED IN ANY APPLICATION NEGATES ANY WARRANTY FROM ASSA ROOFING PRODUCTS.

MAINTENANCE. In order to ensure that your **Assa Roofing Products** roof coating will continue to perform to its fullest, you should follow, implement and satisfy this Care and Maintenance program. Maintain a file for all records relating to this roof, including the **Assa Roofing Products** agreements, reports, invoices, repair and maintenance bills, original drawings and specifications. Inspect the roof and coating at least twice each year, typically in the spring and fall. The most common areas of damage or distress are at drainage points, penetrations, perimeter flashings and in traffic areas.







DISCLAIMER. This specification is an abbreviated form of our full product specification. All statements, technical information and recommendations herein are believed to be reliable and are for information guidance purposes only. **Assa Roofing Products** assumes no responsibility for end-use applications, and no performance warranty is expressed or implied.

All materials may present unknown hazards and should be used with caution. In particular, improper use of said product[s] and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the applicator. Use of said product[s] accepts the product, and assumes the risk of any failure, any injury to any person or persons or property or properties (including that of the applicator), or any loss or liability resulting from the acquisition, handling, storage or use of the product whether or not it is acquired, handled, stored or used in accordance with these specifications.



TECHNICAL CHARACTERISTICS

MonoLastic

Class and type (EN 1504-2)	class C PI-MC-IR	
Class and type (EN 14891)	class DM OP	
Appearance	Paste	
Colour	black	
Apparent volume mass	1.50±0.05 kg/litre	
Mix pH	9	
Application temperature	+5°C ÷ +35°C	
Max. application thickness	3 mm (two coats)	
Drying time (20% - U.R. 55)		
• tacky free time	6 ore	 <p>>2,0 N/mm²</p>
• dry time	4 giorni	
Waiting time		
• for application of each coat on the previous one	24 hours	 <p>>1,0 N/mm²</p>
• for covering with ceramics or paint	4 days at 20°C	
Laying ceramic tiles	Adhesives in class C2, S1/S2 in compliance with EN 12004	
Adhesion		
• initial adhesion to concrete (EN 14891)	>2.0 N/mm ²	 <p>>2,0 N/mm²</p>
• after 28 days (EN 1542)	>2.0 N/mm ²	
• after water immersion (EN 14891)	>1.5 N/mm ²	
• after immersion in basic water (EN 14891)	≥0.5 N/mm ²	
• after immersion in chlorinated water (EN 14891)	≥0.5 N/mm ²	 <p>240±40%</p>
• after heat action (EN 14891)	>2.0 N/mm ²	
• after frost/thaw cycles (EN 14891)	>1.0 N/mm ²	
• to glass	>1.0 N/mm ²	
• to steel	>2.0 N/mm ²	 <p>>500 KPa</p>
• to wood	>1.5 N/mm ²	
Ultimate elongation		
• at 23°C - U.R. 50% (NFT 46002)	240±40%	 <p>-10°C</p>
• with reinforcement (EN 12311-1)	70±15%	
Crack bridging (EN 1062-7)	class A5 >2.5 mm	
Crack bridging ability		
• at +20°C (EN 14891)	≥3.0 N/mm ²	
• at -5°C (EN 14891)	≥1.5 N/mm ²	
• with reinforcement (internal method)	>10 mm	
Water vapour permeability (EN 7783-1)	classe II 5 ≤ S _p ≤ 50 m	
Capillary water absorption and water permeability (EN 1062-3)	W<0.1 kg/m ² ×0.50 h	
Permeability to CO ₂ (EN 1062-6)	S _p >50 m	
Watertightness (EN 14891)	impermeabile (>500 KPa)	
Ultimate tensile strength		
• at 23°C - U.R. 50% (NFT 46002)	1.4±0.3 MPa	
• with reinforcement (EN 12311-1)	520±50 N	
Resistance to static loading (EN 12730)		
• method A	45 kg	
• method B	25 kg	
Resistance to impact (EN 12691)		
• method A	1,000 mm	
• method B	1,000 mm	
Cold flexibility (UNI 1109)	-10°C	
Thermal resistance	-30°C ÷ +80°C	
Flammability	non-flammable	
Shelf life in original packaging	12 months	

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s.