



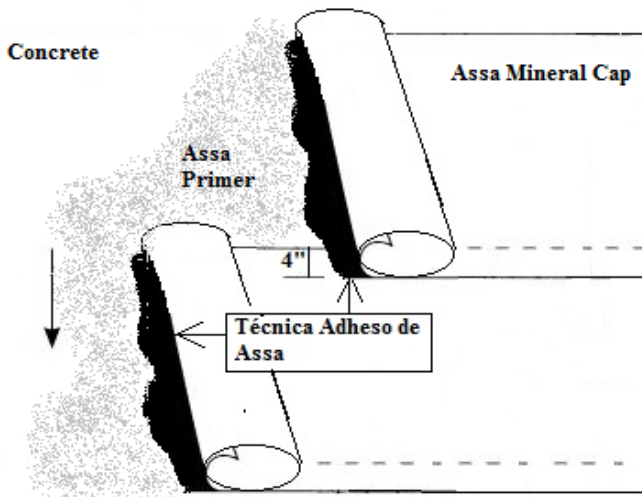
# APP Adheso Technique Specifications

## Assa APP 5K

ASSA APP 5k Mineral Cap sheet polyester reinforcement. Adheso Technique Applications.

### Twelve (12) Years Warranty

**One-Ply Adheso Technique Application Modified Bitumen Mineral-Surfaced Roofing System. For use over roof insulation, approved decks or other approved insulations on inclines up to 6" per ft.**



### Materials requested per 1,000 ft2 of roof area.

- Primer :** Assa Roof Primer.....10 gallons
- Preparation:** Assa Roof Cement for all penetrations
- Base :** Assa APP Flashing Base Sheet 4k Polyester
- Adhesive:** Assa Adhesive Roof Coating.....15 gallons.
- Cap :** Assa APP 5k Polyester Mineral Cap..... 10.5 Rollos
- Finish:** Assa Aluminum Roof Coating (Laps)..... 2 gallons

### Adheso Technique Application

**GENERAL.** This specification is for use over any type of approved structural deck which is not nailable and which provides a suitable surface to receive the roof. Poured and precast concrete decks require priming with **Assa Asphalt Primer** prior to application.

This specification is also for use over **Assa Roof Insulations**, or other approved roof insulations which are not nailable and which provide a suitable surface to receive the roof. Specific written approval is required for any roof insulation that is not supplied by **Assa**. Insulation shall be installed in accordance with the appropriate **Assa** insulation specification detailed in the Assa Industrial Roofing Systems Manual. This specification can also be used in certain re-roofing situations.

**Design and installation of the deck and/or roof substrate must result in the roof draining freely, to outlets numerous enough and so located as to remove water promptly and completely. Areas where water ponds for more than 24 hours are unacceptable and will not be eligible for a Assa Guarantee.**

**FLASHING.** Flashing membrane applications shall consist of a Polyester base ply 5k and cap ply both Squeegee grade adhesives applied in this systems.

**MATERIAL WARRANTY.** This system has twelve (12) year materials warranty. This warranty is offered at no cost to the owner direct by **Assa**.

**LABOR & MATERIAL WARRANTY.** Twelve (12) year labor and materials warranty available. The Roofing Contractor must be an Authorized **Assa** Applicator to request this warranty type.

**APPLICATION.** Priming of the substrate is not required unless specified for test agency or building code approval.

Squeegee grade adhesives are intended for horizontal applications of the field membrane, except end laps.

On roofs with slopes of less than ¼, heat-welded side laps on the cap membrane are required. The solvents shall be permitted to flash off before the cap membrane laps are heat welded. Cap membrane end laps should be sealed the same day as the cap membrane installation

Allow a minimum of 3 days after a membrane is installed for the adhesive to sufficiently cure before allowing foot or equipment traffic on the installed membrane. When walking on the cold-adhered membrane, a sunken footprint should not be visible nor should the adhesive be capable of sustaining a flame.

All laps shall be checked for perfect adhesion. Paint all seams edge and all obscure areas with **Assa Aluminum Roof Coating**.

**WARRANTY INSPECTION.** Upon completion of the project, the authorized roofing contractor shall complete and submit the **Assa** Systems Project Completion Notice to **Assa** Technical Customer Services.





**ASSA MINERAL INDEX** (ARGO Model) membrane is made up of distilled bitumen, selected for industrial use, with elastomeric and plastomeric polymers added to obtain a phase inversion compound whose continuous phase is formed by polymers in which the bitumen is dispersed, where the characteristics are determined by the polymeric matrix and not by the bitumen even if this is the most consistent ingredient.

The performance of the bitumen is therefore increased along with the durability and the resistance to high and low temperatures while the already optimum adhesive and waterproofing qualities of the bitumen remain unchanged. ARGO is produced in various weights and reinforced with fibreglass mat and in stabilized "non-woven" polyester fabric.

**ASSA MINERAL POLYESTER** is reinforced with a rot-proof "non-woven" polyester fabric composite, stabilized with fibreglass mat which is very strong and elastic with optimal dimensional stability in hot conditions which reduces the problems of the straightness and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in "non-woven" polyester fabric.

The MINERAL versions have the upper face self-protected with hot bonded and pressed slate granules, with the exception of an overlapping side strip, protected by a strip of Flamina film which is torched to weld the joints. The underside of the membranes is coated with Flamina, a plastic film that melts when torched and which is embossed both to obtain the pretension and therefore the optimal retraction of the film and also to offer the torch a greater surface area for faster and more reliable installation. When the membrane is dry laid or spot bonded, the embossing diffuses the vapour.

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## TECHNICAL CHARACTERISTICS

	Standard	T	ARGO POLYESTER		MINERAL ARGO POLYESTER			ARGO/V		
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass		"Non-woven" composite polyester stabilized with fibreglass			Fibreglass		
Mass per unit area	EN 1849-1	±10%	3.0 kg/m <sup>2</sup>	4.0 kg/m <sup>2</sup>	-	-	-	2.0 kg/m <sup>2</sup>	3.0 kg/m <sup>2</sup>	4.0 kg/m <sup>2</sup>
Mass per unit area MINERAL	EN 1849-1	±15%	-	-	3.5 kg/m <sup>2</sup>	4.0 kg/m <sup>2</sup>	4.5 kg/m <sup>2</sup>	-	-	-
Roll size	EN 1848-1	≥	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x20 m	1x10 m	1x10 m
Watertightness	EN 1928 - B	≥	60 kPa		60 kPa			60 kPa		
• after ageing	EN 1926-1928	≥	60 kPa		60 kPa			60 kPa		
Shear resistance L/T	EN 12317-1	-20%	350/250 N/50mm		-			300/250 N/50mm		
Maximum tensile force L/T	EN 12311-1	-20%	400/300 N/50 mm		400/300 N/50 mm			300/200 N/50 mm		
• after ageing			-		NPD			-		
Elongation L/T	EN 12311-1	-15% V.A.	35/40%		35/40%			2/2%		
• after ageing			-		NPD			-		
Resistance to impact	EN 12691 - A		700 mm		-			-		
Resistance to static loading	EN 12730 - A		10 kg		-			-		
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	140/140 N		140/140 N			70/70 N		
Flexibility to low temperature	EN 1109	≤	0° C		0° C			0° C		
Flow resistance at high temperature	EN 1110	≥	110° C		-			110° C		
Res. to water penetration	EN 1928		-		W1			-		
• after ageing	EN 1296-1928		-		W1			-		
Reaction to fire Euroclass	EN 13501-1		E		E			E		
External fire performance	EN 13501-5		F roof		F roof			F roof		
Thermal specifications										
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			3.90 KJ/K	5.20 KJ/K	4.20 KJ/K	4.80 KJ/K	5.40 KJ/K	2.60 KJ/K	3.90 KJ/K	5.20 KJ/K

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of  $\mu = 20\ 000$  may be considered, unless declared otherwise.