



ATLAS  
**thin-coat  
renders and  
façade paints**







# ATLAS

## thin-coat renders and façade paints

DURABILITY – AESTHETICS – SAFETY

### Resistance to biological growth



### Stain-resistance and self-cleaning effect



### Resistance to impacts and hailstorm



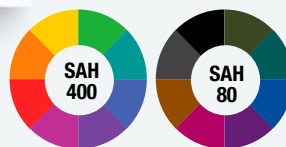
### Vivid and durable colours



### High elasticity



### Wide range of colours and textures



# Resistance to biological growth

ATLAS thin-coat renders and façade paints are protected against growth of algae and fungi through high content of hydrophobic agents, low structural absorption, special resins and capsule biocides, even after long-term precipitation.



## Natural protection against biological growth – high pH



Renders and paints of high pH are naturally protected against growth of fungi and algae. Alkaline reaction blocks growth of fungi and algae on façade.

- Silicate render ATLAS: pH > 9.5
- Silicate paint ATLAS Salta S: pH > 11



## ATLAS thin-coat renders and façade paints

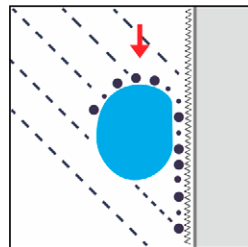
EFFICIENT BIOCIDAL PROTECTION

HIGH CONCENTRATION OF HYDROPHOBIC AGENTS

LOW ABSORPTION RATE

# Stain resistance and self-cleaning effect

Efficient protection against dirt



## Clean façade

Owing to the high hydrophobicity, low absorption rate and structure of render, façade stays clean for years.

## Low absorption rate

High content of resin and additives combined with appropriate fillers reduce water absorption to the minimum.

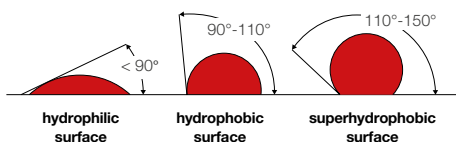
## Structural tightness

Selected composition of aggregates and structural tightness protect surface against dirt and works against rain action or other precipitation.

## Self-cleaning effect – superhydrophobic surface

Measure of surface hydrophobicity - so called contact angle is an angle between surface and the tangent of drop placed on it.

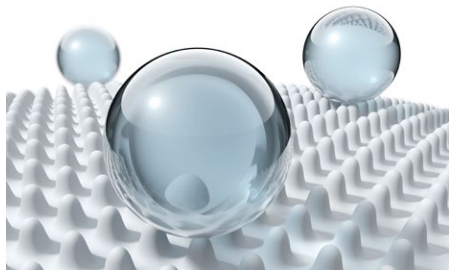
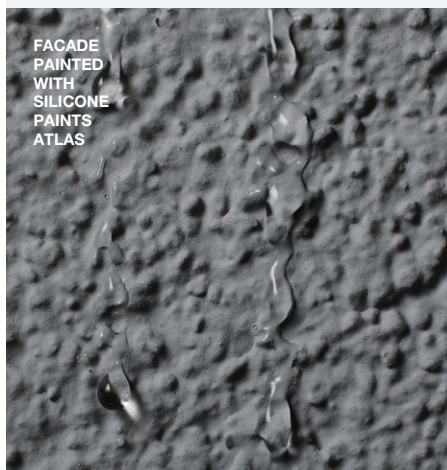
The larger contact angle, the better surface hydrophobicity and the easier it is for walls to be cleaned during the rainfall or washing. Water flows down the façade and washes off dirt.



When the contact angle is above  $110^\circ$ , material is superhydrophobic.

## Superhydrophobic silicone paint ATLAS Salta N Plus

The essence of hydrophobicity of paints or renders is to protect the surface against rainwater without inhibition of water vapour diffusion. The surface is breathable and protected against rain.



# Resistance to mechanical impacts

No cracking, high elasticity



## **Resilience / resistance to hard body impact – minimum 140 J**

ATLAS thermal insulation system composed of base coat made of dispersive mass ATLAS Stopter K-100, combination of two reinforcing meshes: ATLAS 150 and armoured net ATLAS 340 and ATLAS Silicone render has resilience up to 140 J, which corresponds to the hit of football with 90 km/h. Taking into consideration standard requirements which are > 1 J, ATLAS system can be 140 times more resistant to impact than the standard ones.

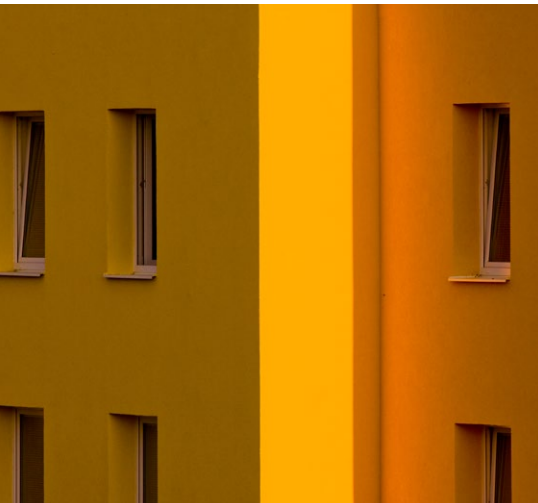
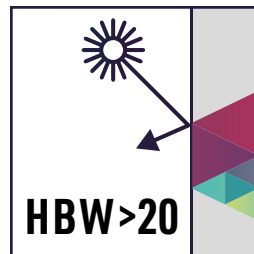


## **Resistance to hailstorm – impact of hail ball of diameter 5 cm with speed over 100 km/h**

ATLAS system has maximum resistance to hailstorm which is 30 m/s while composed of adhesive mass ATLAS Stopter K-100, combination of two reinforcing meshes ATLAS 150 and armoured ATLAS 340 and ATLAS Silicone render.

# Intensive and durable colours

400 SAH + 80 intensive colours



## Extreme resistance to UV radiation

ATLAS thin-coat renders and façade paints have extraordinary resistance to UV radiation owing to high content of resins and titanium white and durable pigments.

## Perfect coverage owing to the high content of titanium white.

Titanium white is a filler which increases paint opacity, has high ability to reflect light, protects against UV radiation and is perfectly white.

## Colour fastness

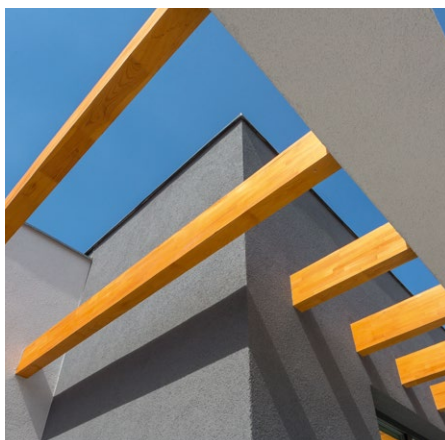
Colours are durable owing to the content of pigments with high resistance to UV radiation.

## SAH 400

ATLAS products are available in colour range SAH 400 which includes 200 pastel and 200 more saturated colours of thin-coat renders and façade paints.

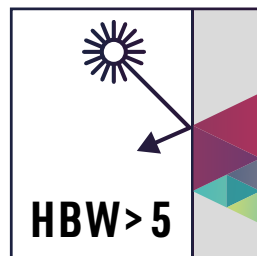


SAH 400 is a colour palette which allows to create unique colour composition with high durability and full safety of use.



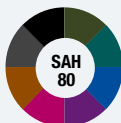
# High elasticity and no cracks

even with low HBW (~5%)



## Intense tones - 80 SAH colours

Intense, especially dark colours, absorb more light. The lower HBW coefficient, the more energy accumulated in material which leads to increased thermal stress and as result surface cracking. Development of ATLAS technology allows for use of silicone render in very dark colour on the entire façade.



## Façade colour and base coat

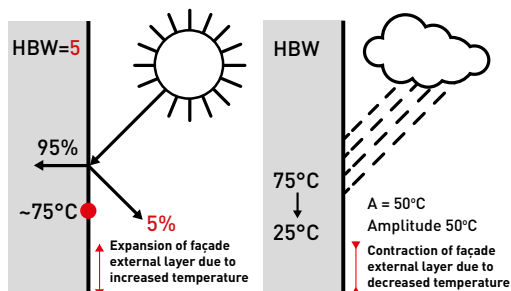
HBW > 5 – ATLAS silicone render + base coat ATLAS Stopter K 100

HBW > 15 – ATLAS silicone render + base coat ATLAS Hoter U/ATLAS HOTER U2/ATLAS Stopter K-100

HBW > 20 – ATLAS dispersive renders + base coat for reinforced layer



## HBW – RELATIVE LUMINANCE FACTOR



HBW = 5; 5% of radiation was reflected from the surface of façade and 95% was absorbed and converted into thermal energy.

## Why should we take special care for façade in colours with HBW < 20?

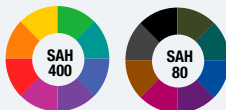
On a sunny day façade covered with render of HBW = 5, may heat up to 75°C. Render and base coat strongly expand. What happens when it rains on such heated surface? The temperature of façade drops to approx. 25°C – **thermal shock** and contraction occurs. The only solution to prevent cracking in such situation is to use elastic render and base coat.



# ATLAS/AVAL dispersive renders

ATLAS renders and paints ensure long term façade durability, form barrier resistant to external factors such as: temperature, UV radiation, precipitation or algae and fungi growth.

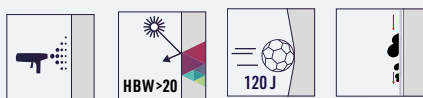
## SILICONE RENDER ATLAS/AVAL



## ACRYLIC-SILICONE RENDER AVAL



## SILICONE-SILICATE RENDER ATLAS



## SILICATE RENDER ATLAS



## ACRYLIC RENDER ATLAS/AVAL



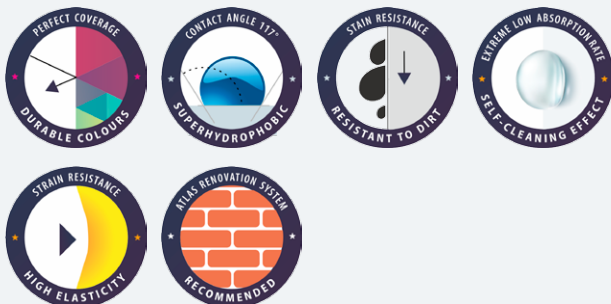
# ATLAS facade paints

Painting not only ensures satisfying appearance of building but also determines its protection. Choice of paint depends on thermal insulation type, substrate beneath the paint, type of object and its location. ATLAS offers highest quality of paints – superhydrophobic, low absorptive, self-cleaning silicone paints, vapour permeable, durable and chemically bonded with substrate silicate paints and highly elastic, eco-friendly acrylic paints. This range will fulfil requirements of any design.

## ATLAS SALTA N PLUS silicone paint PREMIUM



## ATLAS SALTA N silicone paint



**ATLAS SALTA** silicone paint



**ATLAS SALTA S** silicate paint



**ATLAS SALTA E** acrylic paint





# Dispersive renders

Use



COMMERCIAL NAME	SILICONE RENDER ATLAS/AVAL	ACRYLIC-SILICONE RENDER AVAL	SILICONE-SILICATE RENDER ATLAS	SILICATE RENDER ATLAS	ACRYLIC RENDER ATLAS/AVAL
INSULATION TYPE					
EPS	+	+	+	+	+
Mineral wool	+	-	+	+	-
OBJECT TYPE					
Residential buildings	• • • • •	• • • •	• • • •	• • •	• • • • •
Commercial and service buildings	• • • • •	• • • •	• • • •	• • •	• • •
Industrial buildings	• • • • •	• • •	• • • •	• •	• •
Inventory and outbuildings	• • • • •	• • •	• • • •	• • • •	• •
Infrastructure	• • • • •	• • • •	• • • •	• •	• • • • •
Heritage buildings	• • •	-	• •	• • • • •	-
Indoor use	+	+	+	+	+
BUILDING LOCATION					
Urban, industrial areas	• • • • •	• • • • •	• • •	• • •	• • •
Rural areas	• • • • •	• • •	• • •	• • •	•
Wetlands, around water reservoirs	• • • • •	• • •	• • •	• • • •	•
Forest	• • • • •	• • •	• • •	• • • • •	•
THERMAL INSULATION SYSTEM					
ATLAS ETICS	+	+	+	+	+
ATLAS ETICS PLUS	+	-	+	+	+
ATLAS ROKER G	+	-	+	+	-
ATLAS ROKER	+	-	+	+	-
ATLAS RENOTER	+	-	+	-	+

# Paints

Use



PRODUCT	ATLAS SALTA N PLUS	ATLAS SALTA N	ATLAS SALTA	ATLAS SALTA S	ATLAS SALTA E
Paint type	SILICONE PAINT			SILICATE PAINT	ACRYLIC PAINT
INSULATION TYPE					
EPS	+	+	+	+	+
Mineral wool	+	+	+	+	-
USE					
Thin-coat mineral renders	•••••	•••••	••••	•••••	•••
Thin-coat silicate renders	•••	•••	••	•••••	•
Thin-coat silicone renders	•••••	•••••	••••	-	••
Thin-coat silicone-silicate renders	•••••	•••••	••••	-	••
Lime and renovation plasters	•••	•••	••	•••••	-
Acrylic renders	•••••	•••••	••••	-	•••••
Cement-lime, cement plasters	•••••	•••••	••••	•••••	••
Concrete	•••••	•••••	••••	•••••	••
Rough walls (concrete, brick, hollow blocks)	•••••	•••••	••••	••••	•••
Silicate paint	•••	•••	••	•••••	•
Silicone paint	•••••	•••••	••••	-	•••
Acrylic paint	•••••	•••••	••••	-	•••••
Indoor use	+	-	-	+	+
OBJECT TYPE					
Residential buildings	•••••	•••••	••••	••••	•••
Commercial and service buildings	•••••	•••••	••••	••••	•••
Industrial buildings	••••	•••••	••••	•••	•••
Inventory and outbuildings	••••	•••••	••••	••••	•••
Infrastructure	•••••	•••••	••••	•••	••••
Heritage buildings	•••	•••	•••	•••••	-
BUILDING LOCATION					
Urban, industrial areas	•••••	•••••	••••	•••	••••
Rural areas	•••••	•••••	••••	••••	•••
Wetlands, around water reservoirs	•••••	•••••	••••	•••••	•••
Forest	•••••	•••••	•••	•••••	••





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