

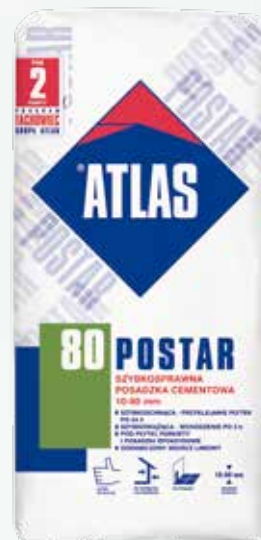
## ATLAS POSTAR 80 (10 - 80 mm) fast-setting cement floor

### Use

Screed or floor 10 up to 80 mm thick - the layer thickness depends on the expected structural arrangement (check data sheet). Recommended for quick repairs - fast-setting - rapidly reaches the operational parameters, therefore the technological breaks are shorter and application of subsequent layers quicker: foot traffic just after 3 hours; fixing the tiles - just after 24 hours. May be used as a screed for finishing flooring layers, such as: wooden floor (parquet) or epoxy floors - characterised by high cohesion and resistance to setting forces, which occur within the joint with flooring layer, e.g. during expansion and contraction of wood resulting from the changes of humidity. Forms floor characterised by high abrasion resistance - recommended for residential housing, warehouses, industrial premises, on driveways, terraces, etc. Can be installed as screed with heating system - does not require elastifying admixtures, conducts heat well. Enables forming a slope and repairs of concrete surfaces, stairs, slabs, floors.

### Properties

**Fast-drying** - the residual moisture content below 2.6% for screed approx. 4 cm thick after 24 hours since application (in standard conditions). **Fast setting** - rapid strength build up within the first day of setting. **Thick plasticity** - mortar consistency makes it easy to spread, float and to form even surface. **Compressive strength:**  $\geq 40.0 \text{ N/mm}^2$  - recommended for any surfaces exposed to medium and high load. **Flexural strength:**  $\geq 7.0 \text{ N/mm}^2$ . **Abrasion resistance:**  $\leq 9.5 \text{ cm}^3/50 \text{ mm}^2$  - acc. to Bohme. **Low linear shrinkage** - minimum changes in linear dimensions during screed drying (approx. 0.6 mm/rm) limit the risk of cracking.



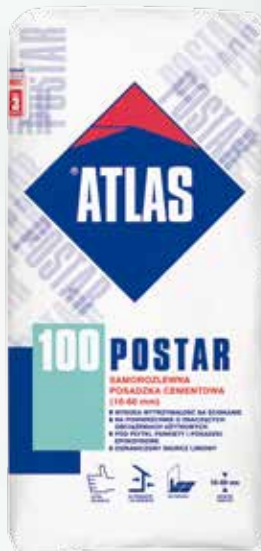
## ATLAS POSTAR 100 (10 - 80 mm) self-spreading cement floor

### Use

Levels surfaces within 10 - 80 mm thickness range - layer thickness depends on the expected structural arrangement. For levelling local irregularities as well as large scale flooring with slope. Forms floor of high strength - recommended for loading ramps, driveways, underground car parks, terraces, balconies, warehouses, etc. Can form top flooring layer as well as screed for other finishing materials. Can be installed as screed with heating system - does not require elastifying admixtures, conducts heat well. Can form screed for top flooring layers, e.g. parquet, epoxy floors and coats - characterised by high cohesion and resistance to setting forces, which occur within the joint with flooring layer, e.g. during expansion and contraction of wood resulting from the changes of humidity.

### Properties

**Perfect spreadability** - enables execution of horizontal surfaces even in large rooms, with no use of battens and mass raking up with a darby. **Compressive strength:**  $\geq 50.0 \text{ N/mm}^2$ . **Flexural strength:**  $\geq 7.0 \text{ N/mm}^2$ . **Low linear shrinkage** - minimum changes in linear dimensions during screed drying (approx. 0.6 mm/rm) limit the risk of cracking. **Suitable for machine application** - easy and quick flooring even in large rooms.



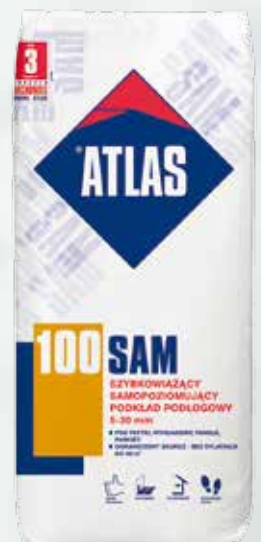
## ATLAS SAM 100 (5 - 30 mm) self-levelling screed

### Use

Levels surfaces within 5 - 30 mm thickness range - both when substrate has local irregularities and when it is whole executed with slight slope. Elevates floor level in the whole room - e.g. when necessary to equalize the level of two adjacent rooms. Recommended for levelling surfaces of existing screeds with heating systems - when screed irregularities make the execution of top finish impossible and additional thin layer of compound must be applied. Can be used in dry rooms - as the screed based on high quality anhydrite, it can only be used indoors in dry rooms: in living rooms, hallways, halls, salons, offices, corridors, waiting rooms, etc. Forms screed beneath top finishes in rooms exposed to medium load - in offices, kindergartens, schools, etc. Types of possible arrangements - bonded - thickness 5 - 30 mm - on good quality substrates, e.g. concrete, cement or anhydrite screed (with or without floor heating).

### Properties

**Self-spreading** - enables execution of smooth horizontal surfaces even in large rooms, with no use of battens and mass raking up with a darby. **Fast setting** - rapid strength build-up enables foot traffic just after 6 hours since the compound application. **Compressive strength:**  $\geq 35.0 \text{ N/mm}^2$ . **Flexural strength:**  $\geq 6.0 \text{ N/mm}^2$ . **Limited contraction** - reduced to minimum possibility of shrinkage cracks during setting, which enables application on areas up to 50 m<sup>2</sup> large without expansion joints. **Suitable for manual and machine application** - can be easily and quickly applied both manually and with machines equipped with helical pumps, therefore high efficiency is reached.



## ATLAS SMS 15 (1-15 mm)

### fast setting, self-levelling compound

#### Use

Levels surfaces within 1 - 15 mm thickness range - both when substrate has only local irregularities and when it is whole executed with slight slope. Elevates floor level in the whole room - e.g. when necessary to equalize the level of two adjacent rooms. Can be used in rooms, antechambers, halls, living rooms, offices, corridors, waiting rooms, kitchens and bathrooms. Recommended for levelling surfaces of existing screeds with heating systems - when screed irregularities make the execution of top finish impossible and additional thin layer of compound must be applied. Forms very smooth surface after application - particularly recommended as smoothing layer for screeds installed under carpet flooring. Types of possible arrangements - bonded - thickness 1 - 15 mm - on good quality substrates, e.g. concrete, cement screed (with or without floor heating).

#### Properties

**Perfect spreading** - enables execution of horizontal surfaces even in large rooms, with no use of battens and mass raking up with a darby. **Fast-setting** - rapid strength build-up enables foot traffic just after 4 hours since the compound application. **Compressive strength:**  $\geq 25.0 \text{ N/mm}^2$ . **Flexural strength:**  $\geq 7.0 \text{ N/mm}^2$ . **Very low linear shrinkage** - minimum changes in linear dimensions during screed drying ( $\leq 0.6 \text{ mm/rm}$ ) limit the risk of cracking and loosening of weak substrates (of low cohesion). **Suitable for manual and machine application** - can be easily and quickly applied both manually and with machines equipped with helical pumps, therefore high efficiency is reached.



## ATLAS SMS 30 (3-30 mm)

### fast setting, self-levelling screed

#### Use

Levels surfaces within 3 - 30 mm thickness range - both when substrate has only local irregularities and when it is whole executed with slight slope. Elevates floor level in the whole room - e.g. when necessary to equalize the level of two adjacent rooms. Can be used in dry rooms - in living rooms, antechambers, halls, offices, corridors, waiting rooms, etc. Can be used in rooms of higher humidity, e.g. house bathrooms. Recommended as a screed under carpet flooring in offices, kindergartens, schools, apartments, etc. - owing to smooth surface and fine aggregate. Types of finishing layers - tiles, PVC and carpet flooring, floor panels, parquet. Types of possible arrangements - bonded - thickness 3 - 30 mm - on good quality substrates, e.g. concrete, cement or anhydrite screed (with or without floor heating).

#### Properties

**Perfect spreading** - enables execution of smooth horizontal surfaces even in large rooms, with no use of battens and mass raking up with a darby. **Fast-setting** - rapid strength build-up enables foot traffic just after 4 hours since the application. **Compressive strength:**  $\geq 30.0 \text{ N/mm}^2$ . **Flexural strength:**  $\geq 7.0 \text{ N/mm}^2$ . **Very low linear shrinkage** - minimum changes in linear dimensions during screed drying ( $\leq 0.6 \text{ mm/rm}$ ) limit the risk of cracking and loosening of weak substrates (of low cohesion). **Suitable for manual and machine application** - can be easily and quickly applied both manually and with machines equipped with helical pumps, therefore high efficiency is reached.



## ATLAS SAM 55 (1-10 mm)

### fast setting, self-levelling compound

#### Use








Levels surfaces within 1 - 10 mm thickness range - both when substrate has only local irregularities and when it is whole executed with slight slope. Elevates floor level in the whole room - e.g. when necessary to equalize the level of two adjacent rooms. Recommended for levelling surfaces of existing screeds with heating systems - when screed irregularities make the execution of top finish impossible and additional thin layer of compound must be applied. Can be used in dry rooms - as the screed based on high quality anhydrite, it can only be used indoors in dry rooms: in living rooms, hallways, halls, salons, offices, corridors, waiting rooms, etc. Forms screed beneath top finishes in rooms exposed to medium load - in offices, kindergartens, schools, etc. Types of finishing layers - tiles, PVC and carpet flooring, floor panels. Types of possible arrangements - bonded - thickness 1 - 10 mm - on good quality substrates, e.g. concrete, cement or anhydrite screed (with or without floor heating).

#### Properties

**Self-spreading** - enables execution of smooth horizontal surfaces even in large rooms, with no use of battens and mass raking up with a darby. **Fast-setting** - rapid strength build-up enables foot traffic just after 6 hours since the compound application. **Compressive strength:**  $\geq 30.0 \text{ N/mm}^2$ . **Flexural strength:**  $\geq 5.0 \text{ N/mm}^2$ . **Limited contraction** - reduced to minimum possibility of shrinkage cracks during setting, which enables application on areas up to  $50 \text{ m}^2$  large without expansion joints. **Suitable for manual and machine application** - can be easily and quickly applied both manually and with machines equipped with helical pumps, therefore high efficiency is reached.



# LEVELLING FLOOR COMPOUNDS

PRODUCT							
	ATLAS SAM 55	ATLAS SAM 100/ AVAL KN 10	ATLAS SAM 150	ATLAS SAM 200	ATLAS SWS/ ATLAS SAM 500	ATLAS SMS 15	ATLAS SMS 30
	Fast setting, self-leveling compound	Fast setting, self-leveling screed	Fast setting, self-leveling screed	Self-leveling screed	Fast setting, self-leveling screed	Fast setting, self-leveling compound	Fast setting, self-leveling screed
Reference document	PN-EN 13813:2003						
Classification	CA-C30-F5	CA-C35-F6	CA-C20-F5	CA-C16-F5	CA-C20-F4	CT-C25-F7	CT-C30-F7
TECHNICAL DATA							
Self-spreading	✓	✓	✓	✓	✓	✓	✓
Layer thickness [mm]	1-10	5-30	15-60	25-60	20-60	1-15	3-30
Mixing ratio water/dry mix [l/ 25 kg]	5.0-6.25	5.0-5.5	4.0 - 4.75	4.25-4.75	5.00-5.25	5.0-5.25	5.00-5.50
Consumption for 1 cm thickness [kg/m²]	18	20	20	20	18	16.6	16.5
Compressive strength [N/mm²]	≥30	≥35	≥20	≥16	≥20	≥25	≥30
Flexural strength [N/mm²]	≥5	≥6	≥5	≥5	≥4	≥7	≥7
Abrasion resistance acc. to Bohm method							
Linear contraction [%]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.05	<0.06	< 0.06
Foot traffic [h]	6	6	6	48	6	4	4
Tiles fixing [days]	3	14-21	21-28	21-28	21-28	1	1
Parquet fixing [days]		21-28				7	7
Installation of panels or carpet flooring [days]	7-10	21-28	21-28	21-28	21-28	7	7
Start of heating (in screeds with heating) [days]			28	28	7		
Manual application	✓	✓	✓	✓	✓	✓	✓
Machine application (mixing-and-pumping units)	✓	✓	✓	✓	✓	✓	✓
SCREED TYPE							
Bonded	✓	✓	✓	✓	✓	✓	✓
On separation layer			✓	✓	✓		
Floating			✓	✓	✓		
With heating system			✓	✓	✓		
USE IN FLOOR STRUCTURE							
Smoothing layer	✓	✓				✓	✓
PLACE OF APPLICATION							
Indoors - dry	✓	✓	✓	✓	✓	✓	✓
Indoors - wet						✓	✓

PRODUCT					
	ATLAS POSTAR 10	ATLAS POSTAR 20	ATLAS POSTAR 40	ATLAS POSTAR 80	ATLAS POSTAR 100
	Traditional cement floor	Fast drying cement screed	Cement floor	Fast-setting cement floor	Self-spreading cement floor
Reference document	PN-EN 13813:2003				
	AT-15-9621/2016	AT-15-8432/2010 + Annex 1	AT-15-6972/2012	AT-15-8462/2010 + Annex 1	AT-15-6971/2012
Classification	CT-C25-F5-A15	CT-C20-F4	CT-C30-F6-A22	CT-C40-F7-A12	CT-C50-F7-A15
TECHNICAL DATA					
Self-spreading					✓
Thickness [mm]	10-100	10-80	10-80	10-80	10-80
Mixing ratio water/dry mix [l/ 25 kg]	2.25-3.00	2.75	2.00-3.75	2.00	3.25-3.75
Consumption for 1 cm thickness [kg/m²]	20	20	20	20	20
Compressive strength [N/mm²]	≥25	≥20	≥30	≥40	≥50
Flexural strength [N/mm²]	≥5	≥4	≥6	≥7	≥7
Böhme abrasion resistance - class	A15		A22	A12	A15
Linear contraction [%]	<0.06	<0.06	<0.08	<0.06	<0.06
Floor access/ foot traffic [h]	24	24	24	3	24
Fixing the tiles [days]	14	1	21-28	1	21-28
Parquet installation [days]	21-28		21-28	7	21
Installation of panels or carpets [days]	21-28	14	21-28	7	21-28
Application of epoxy coat [days]	21-28		21-28	7	21-28
Start of heating (for screeds with heating) [days]	7	7	7	7	7
Manual application	✓	✓	✓	✓	✓
Machine application					✓
SCREED TYPE					
Bonded	✓	✓	✓	✓	✓
On separation layer	✓	✓	✓	✓	✓
Floating	✓	✓	✓	✓	✓
With heating system	✓	✓	✓	✓	✓
USE IN FLOOR STRUCTURE					
Top floor	✓		✓	✓	✓
PLACE OF APPLICATION					
Indoors - dry	✓	✓	✓	✓	✓
Indoors - wet	✓	✓	✓	✓	✓
Outdoors	✓	✓	✓	✓	✓