

# SmartGrip PLUS-100

## High Performance Tile Adhesive Admixture

**SmartGrip PLUS-100** is a polymer emulsion added to **SmartGrip 511, SmartGrip 518, SmartGrip 522 and SmartGrip 532** to improve its adhesion strength, elasticity and impermeability. **SmartGrip** tile adhesives range are pre-mixed adhesive suitable for wide range of ceramic, stone and homogeneous tiles materials. **SmartGrip PLUS-100** can also be added to **SmartGrip TG** to enhance adhesion of tile grout.



### FIELDS OF APPLICATION

- Ceramic tiles of every type (white body, red body, quarry, single fired, double fired and porcelain) on cement mortars, lightweight aggregate blocks & concrete, foamed concrete.
- Natural stone surfaces (marble of every type, slate etcetera) and large size tiles (over 300mm x 300mm).

### TYPICAL APPLICATION

- Ceramic tiles and natural stones for external and wet areas (facades, swimming pools, balconies, terraces)
- Ceramic tiles on pre-fabricated concrete walls, (bearing panels, pre-fabricated bathrooms, walls in tunnel pre-fabricated systems)
- Ceramic tiles on old flooring (ceramic, marble, terrazzo, wood, etcetera)

*When laying tiles in swimming pools or reservoirs, check that the adhesive is perfectly dry before filling with water (it is necessary to wait at least 3 weeks under normal atmospheric conditions)*

### BENEFITS

- Excellent bond strength
- Easy to use
- Long open time
- Excellent consistency
- Excellent adhesion to substrates
- Non-corrosive and Non-toxic

### TECHNICAL DATA (under laboratory conditions)

PROPERTY	TYPICAL RESULTS
Appearance	White Liquid
Pot Life	1 Hour
Open Time	20 - 25 minutes
Adjustability	15 minutes
Ready for Traffic	24 hours
Damp Resistance	Excellent
Aging Resistance	Excellent
Resistance to mild acids/ alkali	Fair
Tensile Adhesion Strength (@ 28 days)	$\geq 1 \text{ N / mm}^2$
Coefficient of Thermal Expansion	Same as concrete
Consistency of Mix	Creamy Paste
Mixing Ratio	6 - 7 litres of SmartGrip PLUS-100 with 25 kg of SmartGrip 511-Eco, SmartGrip 518, SmartGrip 522 and SmartGrip 532.

### SURFACE PREPARATION

Preparing the substrate

- Ensure that substrate is free from oil, dust, grease, laitance or other contaminants.
- Dampen substrate if substrate is highly absorbent before spreading **SmartGrip 511, 518, 522 and 532** with **SmartGrip PLUS-100**.
- Defective and unsound substrate has to be repaired prior application of **SmartGrip 511, 518, 522 and 532** with **SmartGrip PLUS-100**.

### DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/ herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

## MIXING

Preparing the mix

- Add 25 kg of **SmartGrip 511, 518, 522 and 532** to 6 - 7 litres of **SmartGrip PLUS-100**. Mix thoroughly using a powder mixer till a creamy paste is achieved.
- Slake the mix for a few minutes and after further stirring, proceed with application.

## PLACING

Applying the mix

- Pre-soaking of tiles is not necessary
- Work the adhesive into good contact with the substrate using a notched trowel.

Laying the tiles

- Lay tile firmly and ensure good contact is made with adhesive. Tiles must be fully bedded and no voids should occur behind the tiles.
- Check that adhesive does not form a surface skin and is fresh to touch when installing tiles.
- Should a surface skin form, the adhesive should be re-trowelled producing a fresh surface to receive tiles. Avoid sprinkling of water to moisten adhesives.
- Adjustment of tiles should be done within 15 minutes following the laying of adhesive.
- Tile laid with **SmartGrip PLUS-100** must be protected from adverse weather conditions and loading for at least 24 hours.
- Allow adhesive to set for 24 hours before grouting with **SmartGrip TG**.

## PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of water. Seek medical help immediately.

## PACKAGING & STORAGE

**SmartGrip PLUS-100** is supplied in 20 litres container and has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

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