



SmartBond AN

Acrylic Bonding Agent & Polymer Liquid Additive

SmartBond AN is a single component, milky emulsion consisting of modified acrylic type resin and is used as a bonding agent. As part of a complete concrete repair system, **SmartBond AN** is excellent for both internal and external applications. It is also can be used as a curing membrane.

FIELDS OF APPLICATION

- Overhead and vertical repairs
- Primers for concrete repair system
- Flooring with higher resistance to wear

BENEFITS

- Easy application
- Good bond strength
- Cost effective
- Extended open time
- Can be used as a curing membrane
- Can be used as an additive for cementitious mixes

TECHNICAL DATA

PROPERTY	TYPICAL RESULTS
Solids Content	> 25%
Slant Shear Bond Strength @ 28 days	≥ 2.0 N/mm ²
Tensile Adhesion Bond Strength @ 28 days	≥ 1.5 N/mm ²
Coverage (Bonding Agent)	6 - 8 m ² /litre

GUIDELINES

Bonding Aid

- Add cement to **SmartBond AN** bonding aid at a ratio of 1:1.
- Use an electrical mixer to mix for approximately 3-5 minutes to achieve a homogeneous consistent bonding slurry.
- For spatter dash or key coat, cement may be replaced by a 1:1 cement sand ratio (sand particle size < 0.40 mm) to form a rougher key.
- For bonding plaster on concrete wall, apply the bonding slurry by stiff brush or by sprayer to form 1-2 mm thick spatter dash or key coat. Allow to harden or become tack-free before applying plaster or skim coat.
- For bonding fresh floor screed or patching mortar to existing sound substrate, apply the bonding slurry with stiff brush onto the pre-wetted substrate and apply fresh screed wet on wet.
- For bonding fresh concrete to old concrete, apply a layer of bonding slurry onto cleaned, pre-wetted concrete, follow by fresh concrete casting to ensure wet on wet application.

Curing Aid

- Apply **SmartBond AN** to concrete or mortar surface as soon as finishing operations are completed.
- **SmartBond AN** is applied by a brush. It is important to ensure that a continuous film is applied.

MIXING

Bonding Agent

- **SmartBond AN** is applied directly from the container. No dilution with water or solvents necessary.

PLACING

Bonding Agent

- Pre-wet the substrate before application of **SmartBond AN**.

SURFACE PREPARATION

- Remove all loose and unsound concrete by hacking and expose the entire surface of corroded reinforcing steel.
- For all repair areas, a 10 mm saw cut is recommended to avoid “feather edging” of the repair mortar.
- All fine, loose debris may be removed with oil free compressed air.

PRECAUTIONS

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

PACKAGING & STORAGE

SmartBond AN is supplied in 20 litre containers and has shelf life of 12 months if stored in a cool and dry place in a sealed packaging with sheltered protection from rain and sunlight.

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.