

DESCRIPTION

AD-1 is a full acrylic polymer additive specially formulated to use with sand, cement, screeds, cement-based tile adhesives and renders.

AD-1 increases the tensile strength and flexibility of cement-based products. Ideally suitable for interior and exterior areas and structures where structural and thermal movement can be expected.

FEATURES & BENEFITS

- Easy Application
- Waterproof
- Increases tensile & compression strength
- Increases flexibility
- Reduces shrinkage
- Improves shock & frost resistance

SUITABLE FOR

- Cement based adhesive
- Sand and cement screeds
- Slurry and bond coats
- Renders
- Swimming pool applications

PACKAGING

4L and 20L plastic containers.

SHELF LIFE

In unopened original packaging for up to 12 months when stored in a cool, dry environment and out of direct sunlight.

SUBSTRATE PREPARATION

All masonry substrates to be tiled or screed bedded must be clean, dry, free from dust, wax, oil, grease, laitance, curing compounds, paints (Incl. overspray), coatings and all contaminants which may cause adhesion failure.

Concrete substrates should be porous, ideally have wood float finish and be allowed to cure for 28 days.

Sand & cement screeds & renders should be allowed to cure for 7 days.

If in doubt, please contact **ACT Australia Technical Services**.

SAND & CEMENT SCREEDS

When using **AD-1** with sand & cement screeds, Mix 2 parts water to 1-part **AD-1**. This mixture can then be added to a 3:1 or 4:1 sand & cement mix. Mixture should be suitable for screeding with straight edge to accommodate adequate falls. Screed can be tiled over after 24 hours with either ACT **ADH-33**, **ADH-44**, **ADH-55**, **ADH-66** or **ADH-77** tile adhesives.

ADHESIVES

When using **AD-1** to fortify standard rigid cement based adhesive, dilute **AD-1** 1:1 with clean drinking water. Slowly mix with a quality drill & mixing paddle to ensure a smooth and lump free toothpaste consistency. Leave the mix for 3 minutes and then re-stir. The adhesive is now ready for use.

SLURRY & BOND COATS

When using **AD-1** with slurry and bond coats, dilute **AD-1** 1:1 with clean drinking water. Mix this solution with neat cement or **ADH-55** tile adhesive to a slurry mixture. Apply this mixture with a stiff broom thoroughly into the clean substrate. Ensure sand and cement screed is applied to a wet slurry and bond coat.

CLEAN UP

AD-1 can be removed from surfaces using a damp cloth while still wet. Tools and equipment can be cleaned with water and detergent prior to **AD-1** drying.

SAFETY DIRECTIONS

ACT Australia supports best practice in material handling. Provide good ventilation- open doors and windows and use circulating fans. Appropriate gloves, masks, safety glasses and protective clothing should be worn. If product comes in contact with skin, it can be washed off with water before drying. If swallowed drink plenty of drinkable water and seek medical advice, do not induce vomiting. In case of contact with the eyes, rinse with clean water or eye wash solution and seek medical advice.

LIMITATIONS

- Do not use AD-1 in temperatures below 5°C or above 35°C.
- Do not use on non-porous substrates.
- If in doubt, contact ACT Australia Technical Services for further information and advice.

