

DESCRIPTION

NeoGrip is a light weight, single component, cement based adhesive for ceramic tiles, slate, porcelain, decorative glass and natural stone.

NeoGrip is a white powder, consisting of graded sand, cement, synthetic resins and special additives, specifically formulated to achieve an exceptional yield and superior bond strengths to most materials normally used in building.

NeoGrip is especially suitable for high performance internal and external, wall and floor applications, such as bathrooms and commercial kitchens. It is suitable for use with translucent and glass tiles.

NeoGrip is highly thixotropic, which allows the adhesive to be applied to vertical surfaces without dripping or allowing tiles to slip.

CLASSIFICATION IN ACCORDANCE TO AS4992.1-2006

NeoGrip is a deformable, fast setting, normal cement based adhesive with extended open time and no vertical slip, classified as C1TEFS1.

FEATURES AND BENEFITS

- Single component system, requires only the addition of clean water.
- Extended open time.
- High yield.
- Quick and easy to apply.
- Excellent adhesion to floor and wall substrates.
- White, will not adversely affect the appearance of subsequent white grout joints.

RECOMMENDATIONS

Do **not** use:

- On wooden, PVC, rubber, linoleum, metal or painted substrates;
- For the installation of moisture sensitive stone or agglomerates;
- For tiling in continuous water immersion applications, such as swimming pools, fountains etc., unless it is mixed with *ACS NeoLastic* diluted 1:1 with water;
- Contact ACS Technical Services for information on tiling over other surfaces not mentioned in this data sheet.

APPLICATION

Substrate Preparation

All substrates must be dry, flat, solid, structurally sound, free of loose particles, paint, grease, oil, wax, dust and any contamination which may inhibit or prevent adhesion.

Cementitious substrates, such as concrete, screeds and renders must not be subject to shrinkage after the installation of tiles. Steel trowelled concrete should be mechanically abraded to provide a key.

Fibre cement sheet substrates must be fixed in accordance to the manufacturer's instructions and the relevant Australian Standards.

Highly absorbent substrates should be primed with *ACS NeoLastic* diluted 2:1 with water.

Substrates which have become hot due to exposure to sunlight may be cooled down with water.

Masonry substrates should be prepared with a cementitious render to ensure a smooth, sound substrate is achieved.

Mixing

Pour approximately 4.8 – 5.1 litres of clean, cold water into a clean container and slowly add 15kg of *NeoGrip* while slowly mixing with a low speed mixer. Mix thoroughly to a smooth, homogeneous consistency. Allow the mix to stand for approximately five minutes and then stir again briefly. The adhesive is now ready for use.

Mixed this way, the adhesive has a pot life of approximately six hours.

Note: The characteristics of *NeoGrip* can be improved by mixing it with *NeoLastic* diluted 1:1 with water. The characteristics improve in order to exceed the requirements of C2TFS2.

Use approximately 5.4 – 6.0 litres of *NeoLastic* diluted 1:1 with water per 15 kg of *NeoGrip*.

Applying the Adhesive

Apply *NeoGrip* onto the substrate using a notched trowel. Choose a notched trowel of an appropriate size to achieve a coverage as recommended by AS 3958.1 – 2007 or better.

To maximize adhesion, spread a thin layer of the adhesive onto the substrate. Immediately thereafter, build up the required thickness using the notched side of the trowel.

For external applications, areas subject to vehicular traffic or point loads, also spread the adhesive onto the back of the tile (back-butter) in order to achieve full coverage and to eliminate any voids under the tiles.

Do not spread more adhesive than can be covered with tiles within the adhesive's open time.

Where possible, spread adhesive so as to leave horizontal ribs on walls and unidirectional ribs on floors.

Discard any material that has exceeded the pot life or working time of the product.

Installing the Tiles

Press tiles firmly into freshly notched adhesive within the open time and move the tile at least the width of a rib perpendicular to the adhesive ribs. Adjust tiles as necessary within 45 minutes of installation.

The open time of *NeoGrip* is approximately 30 minutes under normal temperature and humidity conditions. Unfavourable conditions, such as high temperature, wind, sunlight or highly absorbent substrates may drastically shorten this time, sometimes to as little as a few minutes. It is therefore necessary to repeatedly check whether a skin has formed on the adhesive. If a skin has formed the adhesive should be re-trowelled or discarded.

Tiling installed with *NeoGrip* must not be subjected to rain or washout for at least 24 hours after installation, and should be protected from direct sunlight for 36 hours. Remove any adhesive from the face of tiles with a damp cloth while the adhesive is still fresh.

Movement Joints

It is essential that movement joints are carried through the tile and the adhesive and are kept free from dust, adhesive and other contaminants.

Refer to AS3958.1 - 2007 for guidance on design and construction of movement joints.

CLEAN UP

Clean all tools and equipment with water before the adhesive dries.

GROUTING

Allow 24 hours drying time before grouting with an appropriate ACS Coloured Grout.

OPEN TO TRAFFIC

Floors are ready to receive light foot traffic after approximately 24 hours and may be put into full use after approximately three days.

CONSUMPTION

Approximately 0.9 kg per m² per mm of adhesive thickness.

A 15kg bag should cover 5 - 7 m² depending on the size of the notched trowel and evenness of the substrate.

PACKAGING

NeoGrip is available in 15kg paper bags.

STORAGE

Stored in original, unopened packaging, in cool dry conditions, *ACS NeoGrip* will keep for 6 -12 months. Storing in areas of high humidity or excess moisture may affect the contents and shorten shelf-life.

TECHNICAL DATA

DRY PRODUCT	
Form:	Off white powder
Bulk Density:	1100 kg/m ³
Mixing ratio/15kg bag	4.8– 5.1 litres

MIXED PRODUCT	
Consistency:	Homogeneous Paste
Wet Density:	1300 kg/m ³
pH:	10 – 12
Pot life:	3.0 – 4.0 hours
Open Time :	20 – 30 minutes
Setting time:	2 – 4 hours
Drying Time:	24 hours

HANDLING

TENSILE ADHESION STRENGTHS	
28 days	> 0.5 N/mm ²
Water immersion	> 0.5 N/mm ²
Heat ageing	> 0.5 N/mm ²
Freeze / Thaw	> 0.5 N/mm ²
20 min open time	> 0.5 N/mm ²
30 min open time	> 0.5 N/mm ²
Deformation	> 2.5 mm + < 5 mm

SAFETY

NeoGrip contains cement, which can be irritating to the skin and eyes. During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

Use only in well ventilated areas. Wear protective clothing to minimise skin contact.

The use of P1 Masks, tight fitting goggles and barrier creams is recommended.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice. If swallowed, seek medical attention immediately – **Do not** induce vomiting.

For further information consult the **Material Safety Data Sheet** and read the product label carefully before use. **Material Safety Data Sheets** are available by phoning **1800 077 744**.

Please Note:- The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.



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