

NeoLastic

DESCRIPTION

NeoLastic is an acrylic latex admixture which can be used with ACS cement based adhesives and ACS Screed in order to further improve their bond strength and deformability.

Depending on the circumstances and the adhesive used, *NeoLastic* can be used undiluted or diluted 1:1 with water.

NeoLastic is suitable for use as a primer if diluted 2:1 with water.

FEATURES AND BENEFITS

- Economical two component adhesive system.
- Improved bond strength and water resistance.
- Improved deformability.

RECOMMENDATIONS

When Used with ACS Super Fix

Mixing

Pour approximately 6.0 – 6.8 litres of *NeoLastic* or 5.6 – 6.2 litres of *NeoLastic* diluted 1:1 with water into a clean container and slowly add 20kg of *ACS Super Fix* 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 three hours.

CLASSIFICATION IN ACCORDANCE TO AS4992.1-2006

When *ACS Super Fix* is mixed with *NeoLastic* or *NeoLastic* diluted 1:1 with water the performance exceeds the requirements for the classification of C2S2 and C2S1 respectively.

TECHNICAL DATA

The following typical results were obtained at 23 ±2 °C with 50% R. H.

Super Fix mixed with *NeoLastic* diluted 1:1 with water:

MIXED PRODUCT	
Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	2 – 4 hours
Drying Time:	24 hours

TENSILE ADHESION STRENGTHS	
28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 2.5 mm & < 5 mm

Super Fix mixed with *NeoLastic*:

MIXED PRODUCT	
Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	2 – 4 hours
Drying Time:	24 hours

TENSILE ADHESION STRENGTHS

28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 5 mm

When Used With ACS Hi Flex:**Mixing**

Pour approximately 8.6 – 9.2 litres of *NeoLastic* diluted 1:1 with water into a clean container and slowly add 20 kg of *Hi Flex* 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 two hours.

CLASSIFICATION IN ACCORDANCE TO AS4992.1-2006

When *ACS Hi Flex* is mixed with *NeoLastic* diluted 1:1 with water the performance exceeds the requirements for the classification of C2S2.

TECHNICAL DATA

The following typical results were obtained at 23 ±2 °C with 50% R. H.

MIXED PRODUCT

Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	2 – 4 hours
Drying Time:	24 hours

TENSILE ADHESION STRENGTHS

28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 1 N/mm ²
24 hour cure	> 5 mm

When Used With ACS Econo Rapid:**Mixing**

Pour approximately 6.2 – 7.0 litres of *NeoLastic* or 5.4 – 6.2 litres of *NeoLastic* diluted 1:1 with water into a clean container and slowly add 20 kg of *Econo Rapid* 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 two hours.

CLASSIFICATION IN ACCORDANCE TO AS4992.1-2006

When *ACS Econo Rapid* is mixed with *NeoLastic* or *NeoLastic* diluted 1:1 with water the performance exceeds the requirements for the classification of C2FS2 and C2FS1 respectively.

TECHNICAL DATA

The following typical results were obtained at 23 ±2 °C with 50% R. H.

Econo Rapid* mixed with *NeoLastic*.*MIXED PRODUCT**

Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	2 – 3 hours
Drying Time:	24 hours

TENSILE ADHESION STRENGTHS

28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 5 mm
24 hour cure	> 0.5 N/mm ²

Econo Rapid mixed with AC Lastic diluted 1:1 with water:

MIXED PRODUCT	
Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	1 – 2 hours
Drying Time:	2 - 3 hours

TENSILE ADHESION STRENGTHS	
28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 2.5 & < 5 mm
24 hour cure	> 0.5 N/mm ²

When used with ACS Econo Flex:

Mixing

Pour approximately 8.0 – 8.6 litres of *NeoLastic* or 7.4 – 8.0 litres of *NeoLastic* diluted 1:1 with water into a clean container and slowly add 17 kg of *Econo Flex* 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 two hours.

CLASSIFICATION IN ACCORDANCE TO AS4992.1-2006

When **ACS Econo Flex** is mixed with **NeoLastic** or **NeoLastic** diluted 1:1 with water the performance exceeds the requirements for the classification of **C2S2** and **C2S1** respectively.

TECHNICAL DATA

The following typical results were obtained at 23 ±2 °C with 50% R. H.

Econo Flex mixed with NeoLastic diluted 1:1 with water:

MIXED PRODUCT	
Consistency:	Homogeneous Paste
Wet Density:	1600kg/m ³
pH:	10 – 12
Pot life:	2.0 – 3.0 hours
Open Time :	20 minutes
Setting time:	2 – 4 hours
Drying Time:	24 hours

TENSILE ADHESION STRENGTHS	
28 days cure	> 1 N/mm ²
Water immersion	> 1 N/mm ²
Heat ageing	> 1 N/mm ²
Freeze / Thaw	> 1 N/mm ²
20 min open time	> 1 N/mm ²
Deformation	> 5 mm

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. Therefore, they must be fully cured in accordance with the provisions of AS3958.1-2007 and it is essential that they are free of laitance and release agents. 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.

Applying the Adhesive

Apply the mixed adhesive 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.

The open time of the adhesive is approximately 20 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 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 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 seven days.

PACKAGING

NeoLastic is available in 10 litre or 20 litre containers.

STORAGE

Stored in original, unopened packaging, in cool dry conditions, *NeoLastic* will keep for 12 -18 months.

HANDLING

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.

SAFETY

NeoLastic contains ingredients, 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.

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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