

DESCRIPTION

ProLast is a high performance two-component, chemical and moisture resistant solvent free epoxy mortar for the installation and grouting of all kinds of ceramic, porcelain, stone and glass mosaic tiles.

ProLast is supplied in two parts, coloured epoxy resin and hardener which when mixed together produce a smooth epoxy mortar with outstanding workability and ease of application that can be used to install or grout floor and wall tiles in interior or exterior areas.

ProLast is available in a wide range of attractive colours (consult our Sales Department for details).

APPLICATIONS

ProLast is suitable for fixing and grouting all types of ceramic tiles, porcelain, stone and glass mosaic at indoor and outdoor areas of application such as:

- » Floor and wall tiles in residential, commercial and industrial areas.
- » Kitchens and bathrooms.
- » Swimming pools.
- » Hospitals, pharmaceutical plants and laboratories.
- » Dairy industries and food processing plants.

ADVANTAGES

- » Exceptional ease of application and cleanability characteristics.
- » High mechanical strength.
- » Provides a stable and uniform colours when used as a tile grout.
- » Excellent chemical resistance.
- » Mould and stain resistant.
- » Extremely durable with high abrasion resistance.
- » Free from solvent and hazardous ingredients.
- » Low VOC content, excellent for indoor applications.

STANDARDS

ProLast complies with the following standards:

- » ISO 13007-1 as R2T reaction resin tile adhesive.
- » ISO 13007-3 as RG reaction resin tile grout.

TECHNICAL PROPERTIES @ 25°C:

Mixed density:	1.55 ± 0.10 g/cm ³
Pot life: ISO 13007-4, 4.1.4	1.5 - 2.0 hr
Open time (by tensile adhesion): ISO 13007-2, 4.1	≥ 3.0 MPa (after 20 min)
Shear adhesion strength: ISO 13007-2, 4.3.4	≥ 4.0 MPa (at normal conditions)
Shear adhesion strength: ISO 13007-2, 4.3.5	≥ 4.0 MPa (after water immersion)
Shear adhesion strength: ISO 13007-2, 4.3.8	≥ 4.0 MPa (after thermal shock)
Water absorption: ISO 13007-4, 4.2	≤ 0.08 g (after 240 min)
Abrasion resistance: ISO 13007-4, 4.4	≤ 200 mm ³
Shrinkage: ISO 13007-4, 4.3	≤ 1 mm/m
Compressive strength: ISO 13007-4, 4.1.4	≥ 55 MPa
Flexural strength: ISO 13007-4, 4.1.3	≥ 30 MPa
Service temperature:	-20 to 100°C
VOC: ASTM D2369	≤ 50 g/ltr (comply with LEED)

METHOD OF USE

SURFACE PREPARATION

1) As a tile adhesive:

- » Substrates should be clean and free from dust or any contamination.
- » Steel surfaces shall be free from rust or other contaminants, ideally grit blasted to a near white finish in accordance to Swedish standards SA 2 ½.
- » It is recommended that surfaces are in dry condition before tiling. However, ProLast can be applied on humid substrates.

2) As a tile grout:

- » Joint surfaces should be clean and free from dust or any contamination.
- » Ensure that the joint widths are not less than 1.5 mm.
- » Joints should be cleaned to the full thickness of the tile or to a minimum depth of 2/3 of the tile thickness.
- » Joints should be dry before grout filling.

MIXING

Drill mixer fitted with a suitable paddle should be used for mixing. Add the entire content of the hardener to the coloured base, taking care that the bottom and sides of the hardener pack are thoroughly scraped.

Start mixing with low speed (300 - 400 rpm) for a minimum of 3 minutes until a uniform lumps-free paste is obtained. Manual mixing is not allowed.

PLACING AND FINISHING

1) As a tile adhesive:

Spread the mixed adhesive to the substrate using a notched trowel. Apply with pressure a 1 to 2 mm coat with pressure using the flat face of the notched trowel onto the substrate.

Comb diagonally additional mixed adhesive up to a 3 mm total maximum thickness with the notched side of the notched trowel. Do not apply large areas of adhesive that cannot be covered within the open wet time of the adhesive.

1) As a tile grout:

Introduce the mixed paste to the prepared joints using a proper rubber float or stainless steel scraper to fill the joints completely with ProLast. Remove the excess material by moving the float or the scraper diagonally over the surface.

It is recommended to remove the excess material from the tile surfaces before the material fully cures to avoid any difficulty in cleaning the surfaces. All excess material should be cleaned using wet sponge within 30 minutes after application of ProLast at 25°C.

WORKING CONDITIONS

The typical ambient temperature for the application of ProLast is between 10 - 27°C. Lower temperatures will make the material denser and more difficult for application, while at higher temperatures it is recommended to apply the product as fast as possible as this will reduce the pot life and working time of the mixed material.

Note: At low temperature conditions, it is recommended to precondition the materials at 21°C for 24 hours prior to the application.

CLEANING

Cleaning should be commenced immediately using clean water before the grout reaches initial setting. After initial set, product may be removed either by using solvent or by mechanical means but with great difficulty.

PACKAGING

ProLast is available in 3 kg and 6 kg pack.

COVERAGE

When used as a tile adhesive, each 3 kg pack will cover 1.9 m² at 1.0 mm thickness.

When used as a tile grout, the approximate coverage of the grout can be calculated as per the following equation:

$$\text{Coverage (kg/m}^2\text{)} = \left(\frac{A + B}{A \times B} \right) \times C \times D \times MD$$

Where:

- A: Tile length (mm)
- B: Tile width (mm)
- C: Joint depth*(mm)
- D: Joint width (mm)
- MD: Mixed density**

** If depth is unknown, use tile thickness.*

***Value from Technical Properties table.*

Note: Grout coverage subject to ±15% tolerance.

STORAGE

ProLast has a shelf life of 12 months from date of manufacture if stored at temperatures between 8°C and 35°C in original unopened pack.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

ProLast should not come in contact with skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye protection.

If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention immediately.

For further information, refer to the Material Safety Data Sheet.

FIRE

ProLast is nonflammable.



ProLast

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- » Sealants.
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- » Tile adhesives and grouts.
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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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