## Description

Three-component, solvent-free, epoxy-resin-based, chemical resistant adhesive and water wipeable grout.

## Fields of Application

- Adhesion and grouting applications of surface coating materials such as antiacid porcelain tiles, granite, etc.
- In industries like food, textile, pharmaceutical, and hospitals, thermal swimming pools where hygiene is required.
- In industrial places where high chemical and mechanical strength is required.
- Laboratory benches and commercial kitchen working areas.
- Provides excellent results for joints in saline or thermal swimming pools, wastewater treatment plants.


## Properties

- Excellent bonding.
- Highly resistant to heavy traffic.
- Can be applied on a vertical surface.
- Easily trowellable.
- Excellent chemical and mechanical resistance.
- Stain resistant.
- Hygienic thanks to its low water absorption.
- Easy to clean thanks to its smooth surface.
- Crack, abrasion resistant and durable.
- Easy to apply with 60 minutes pot life at $25^{\circ} \mathrm{C}$.


## Preparation of Substrates

## As an adhesive

- The surface must be dry and moisture content should not exceed 5\%.
- Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
- Use Tamirart series repair mortar or Mastar 10 in case of any loose and uneven substrates to get a sound and flat surface. .
- Wipe the back sides of tiles with water if dusty.


## Application

## As an adhesive

- First, empty the lower pail that contains components $B$ and $C$. Then pour component $A$ into the lower pail completely without leaving any residuals. Next, pour component B onto component A and mix with a low speed mixer until the mixture becomes homogeneous.
- Pour the component $C$, onto the mixture of components $A$ and $B$ which is already prepared in the pail completely without leaving any residuals. Mix with a low speed mixer to obtain a homogenous mixture.
- Spread the material by a notched trowel appropriate to the dimension. To obtain a good adhesion first apply a thin coat with the flat side of the trowel, then notch with the toothed side.
- Install the tiles with a firm pressure.
- Apply the material within its pot life which is 60 minutes. Dispose the material of which pot life is expired.


## Preparation of Substrates

## As a grout

- The surface must be dry and moisture content should not exceed $5 \%$.
- The joint gaps should be free of adhesion preventive foreign substances such as dust, dirt, cement residues etc.
- The joint gaps should be at least $2 / 3$ of the tile thickness.
- When laying the tiles the adhesives or mortars overflowing into the joint cavities should be cleaned before it hardens.
- Dampen the joints with clean water when using very porous ceramic tiles in high temperatures and in the presence of wind.


## Application

## As a grout

- Pour the grout on the tiles, spread the ground by the help of a rubber trowel and work the grout diagonally across the joints, filling them full. Remove excess grout off the tile using the edge of rubber trowel by diagonal movements and avoid pulling the grout out of filled joints.
- After 15 minutes, clean the excess grout using a damp sponge soaked in soap and water mixture, by making light circular movements on the tile surface and joints. Change the cleaning water and sponge as often as needed.


## Post-Application Protection \& Suggestions

- At low temperatures the viscosity of the material increases. Therefore keep the material at room temperature $\left(23 \pm 3^{\circ} \mathrm{C}\right)$ for one day before use.
- Do not walk on the floor for the first 24 hours after application.
- Ventilate the work area during the application.
- Wear gloves, goggles / masks when working.
- Do not mix the product with water or solvents.
- Do not use it for grouting porous stones and ceramics. Epoxy resin may affect the color.
- Remove excess product from the tile surface rapidly because once hardened it will have to be removed mechanically.
- When the products are exposed to UV rays colours may darken.
- The consumption values in the table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- In case of skin and eye contact wash with plenty of water. For further information refer to the safety data sheet.


## Storage

- Packages should be kept dry and cool at between $+5^{\circ} \mathrm{C}$ and $+35^{\circ} \mathrm{C}$ in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 12 months conditional to complying with the above-mentioned storage conditions.


## Packaging

- In 5 kg units and plastic pails (3 component)

Component A: 2.3 kg
Component B: 0.3 kg
Component C: 2.4 kg

General Data

Appearance

Shelf Life

Component A: White, Grey viscose liquid Component B: Light yellow transparent liquid Component C: Whitish powder

12 months when stored in the original sealed packing place.

## Application Data

| Application Temperature Range | $\left(+10^{\circ} \mathrm{C}\right)-\left(+27^{\circ} \mathrm{C}\right)$ |
| :--- | :--- |
| Pot Life | 60 minutes at $25^{\circ} \mathrm{C}$ |
| Period of Grout filling | $12-48$ hours (Depending on the temperature) |
| Ready for Use (Max. Chemical Resistance) | 7 days |
| Set to Foot Traffic | 24 hours |
| Consumption | As an adhesive $3-4 \mathrm{~kg} . / \mathrm{m}^{2}$ <br> As a grout see epoxy grout consumption table. |

## Performance Data

Open Time
Shear Adhesion Strength (EN 12003)

- Initial
- After immersion in water
- After thermal shock

Flexural Strength (EN 12808-3)
Compressive Strength (EN 12808-3)
Abrasion Resistance (EN 12808-2)
Shrinkage (EN 12808-4)
Water Absorption (after 240 min ) (EN 12808-5)
Service Temperature Range (after final cure)
Release of Dangerous Substances
Reaction to fire

After 30 minutes $\geq 0.5 \mathrm{~N} / \mathrm{mm}^{2}$
$\geq 2 \mathrm{~N} / \mathrm{mm}^{2}$
$\geq 2 \mathrm{~N} / \mathrm{mm}^{2}$
$\geq 2 \mathrm{~N} / \mathrm{mm}^{2}$
$\geq 30 \mathrm{~N} / \mathrm{mm}^{2}$
$\geq 45 \mathrm{~N} / \mathrm{mm}^{2}$
$\leq 250 \mathrm{~mm}^{3}$
$\leq 1.5 \mathrm{~mm} / \mathrm{m}$
$\leq 0.1 \mathrm{gr}$
$\left(-20^{\circ} \mathrm{C}\right)-\left(+80^{\circ} \mathrm{C}\right)$
See SDS.
Bs1d0

## Consumption

| Joint Width (mm) | Joint Gap Depth (mm) | Ceramic Size (mm) | Consumption (gr/m²) |
| :---: | :---: | :---: | :---: |
| 3 | 14 | $115 \times 240$ | 1050 |
| 3 | 15 | 115×240 | 1100 |
| 3 | 14 | $240 \times 240$ | 750 |
| 3 | 7 | 200x200 | 400 |
| 3 | 7 | 250x250 | 350 |
| 3 | 8.5 | 300x300 | 350 |
| 3 | 9 | $300 \times 600$ | 250 |
| 3 | 9 | $330 \times 500$ | 250 |
| 3 | 9 | $400 \times 400$ | 250 |
| 3 | 12 | $600 \times 600$ | 250 |
| 4 | 14 | 115x240 | 1400 |
| 4 | 15 | $115 \times 240$ | 1400 |
| 4 | 15 | 240x240 | 1000 |
| 4 | 7 | 200x200 | 550 |
| 4 | 7 | 250x250 | 450 |
| 4 | 8.5 | $300 \times 300$ | 450 |
| 4 | 9 | $300 \times 600$ | 350 |
| 4 | 9 | 330x500 | 350 |
| 4 | 9 | $400 \times 400$ | 350 |
| 4 | 12 | $600 \times 600$ | 300 |
| 5 | 14 | 115x240 | 1750 |
| 5 | 15 | $115 \times 240$ | 1850 |
| 5 | 15 | $240 \times 240$ | 1200 |
| 5 | 7 | $200 \times 200$ | 700 |
| 5 | 7 | 250x250 | 850 |
| 5 | 8.5 | $300 \times 300$ | 550 |
| 5 | 9 | 300x600 | 450 |
| 5 | 9 | $330 \times 500$ | 450 |
| 5 | 9 | $400 \times 400$ | 450 |
| 5 | 12 | $600 \times 600$ | 400 |
| 7 | 14 | 115×240 | 2400 |
| 7 | 15 | $115 \times 240$ | 2600 |
| 7 | 15 | 240x240 | 1700 |
| 7 | 7 | $200 \times 200$ | 950 |
| 7 | 7 | 250x250 | 750 |
| 7 | 8.5 | 300x300 | 750 |
| 7 | 9 | $300 \times 600$ | 600 |
| 7 | 9 | 330x500 | 600 |
| 7 | 9 | $400 \times 400$ | 600 |
| 7 | 12 | $600 \times 600$ | 550 |
| 10 | 14 | 115×240 | 3500 |
| 10 | 15 | $115 \times 240$ | 3650 |
| 10 | 15 | 240x240 | 2400 |
| 10 | 7 | $200 \times 200$ | 1350 |
| 10 | 7 | 250x250 | 1100 |
| 10 | 8.5 | $300 \times 300$ | 1100 |
| 10 | 9 | $300 \times 600$ | 900 |
| 10 | 9 | $330 \times 500$ | 900 |
| 10 | 9 | $400 \times 400$ | 900 |
| 10 | 12 | $600 \times 600$ | 800 |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| CHEMICAL NAME |  |  |  |  |

```
^ :Discoloration
+:Resistant
:Not resistant
```


## Certificates of Quality

TS EN 13888 Class RG
TS EN 12004 Class R2T
RG: Reaction Resin Grout
R2: Reaction Resin Improved Adhesive
T: Reduced Slip.

