

MAX 4009 S – 40(LIMIT LESS)

(Multipurpose Adhesive)

DESCRIPTION:

MAX 4009 S – 40 (LIMITLESS) Exclusive geo-binder based, structural and flexible multi-purpose adhesive for bonding all types of material, on all substrates, and for all uses, even in extreme conditions. Eco-friendly. Ideal for use in green building.

FEATURES & BENEFITS:

Thixo and fluid, high and low thickness, structural adhesion, double open time full wettability, distributes tensile strength, shape memory, frost risk reduced increases the performance, no-slip, no shrinkage, transfers the forces, water resistant, high deformation, absorbs dynamic loads

SUBSTRATES MATERIALS USES:

- Existing tiles waterproofing products heating systems
- Cement-based screeds asphalt screeds concrete plasterboard
- Fibro-cement slabs gypsum and anhydrite cellular concrete brick
- Gypsum and cement-based plasters/renders
- Thermal insulation paneling systems
- Insulating panels
- Impact noise insulation sheets timber
- Metal pvc, Glass tiles
- Porcelain tiles laminated stoneware low thickness slabs ceramic tiles
- Large formats 300 x 150 cm slabs
- Marble - natural stone recomposed materials glass mosaics
- Thermal and acoustic insulation
- Terracotta – klinker
- Adhesive and finishing flooring and walls
- For internal use - external overlaying
- Terraces and balconies facades
- Swimming pools and fountains
- Spas domestic commercial industrial
- Street furniture

PREPARATION & USE:

• PREPARATION OF THE SUBSTRATE

All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.

It is good practice to dampen highly absorbent concrete substrates or apply a coat of Primer a Eco.

• ADHESIVE PREPARATION

Fluid consistency: for low thickness laying and full wettability:

Grey ≈ 8.5 liters of clean water per bag

White ≈ 9.5 liters of clean water per bag

Thixotropic consistency: on walls, for high and low thickness laying:

Grey ≈ 6.2 liters of clean water per bag

White ≈ 7.2 liters of clean water per bag

APPLICATIONS:

To guarantee structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the coating material.

Large, rectangular sizes with sides > 60 cm and low thickness sheets may require adhesive to be applied directly to the back of the material.

Check samples to make sure the adhesive has been transferred to the back of the material.

Create elastic expansion joints:

- ≈ 10 m² in external applications,
- ≈ 25 m² in internal applications,
- Every 8 meters in long, narrow applications.

Respect all structural, fractionizing and perimeter joints present in the substrates.

MATERIALS AND SPECIAL SUBSTRATES

MARBLE–NATURAL STONES AND RECOMPOSED MATERIALS:

Materials that are subject to deformation or staining due to water absorption require a quick-setting or reactive adhesive.

Marble and natural stone in general may have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential you consult Semitrone Global Service to request specific indications or to carry out a test on a sample of the material. In the absence of specific



indications from the manufacturer, natural stone slabs with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive.

Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.

Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.

FACADES

The substrate should guarantee a cohesive tensile strength of $\geq 1,0 \text{ N/mm}^2$.

The need to call for suitable mechanical safety anchoring must be evaluated by the designer for coverings with $> 30 \text{ cm}$ side.

For coverings with $> 60 \text{ cm}$, add to the mixing water a percentage of Top Latex Eco to assess the function of the thermo-dynamic strain provided by the structure.

Always apply a layer of adhesive directly on the back of the material.

TECHNICAL INFORMATION:

Adhesive thickness: from 2 to 15 mm

Coverage per mm thickness:

Grey (mixing ratio 29%) $\approx 1,26 \text{ kg/m}^2$

Shock White (mixing ratio 33%) $\approx 1,27 \text{ kg/m}^2$

Temperature of the air, substrates and materials:

from $+5 \text{ }^\circ\text{C}$ to $+35 \text{ }^\circ\text{C}$

Pot life at $+23 \text{ }^\circ\text{C}$

Grey $\approx 8 \text{ hrs}$

White $\approx 6 \text{ hrs}$

Open time (BIII tile)

$+23 \text{ }^\circ\text{C}$ $\geq 60 \text{ min. EN 1346}$

$+35 \text{ }^\circ\text{C}$ $\geq 20 \text{ min. EN 1346}$

Correction time (BIII tile)

$+23 \text{ }^\circ\text{C}$ $\geq 20 \text{ min.}$

$+35 \text{ }^\circ\text{C}$ $\geq 15 \text{ min.}$

Time required until fully frost-proof (Bla tile)

from $+5 \text{ }^\circ\text{C}$ to $-5 \text{ }^\circ\text{C}$ $\approx 8 \text{ hrs}$

Foot traffic/grouting of joints (Bla tile)

$+23 \text{ }^\circ\text{C}$ $\approx 24 \text{ hrs}$

$+5 \text{ }^\circ\text{C}$ $\approx 50 \text{ hrs}$

Grouting in walls (Bla tile)

$+23 \text{ }^\circ\text{C}$ $\approx 20 \text{ hrs}$

Ready for use at $+23 \text{ }^\circ\text{C}$ / $+5 \text{ }^\circ\text{C}$ (Bla tile)

- Light foot traffic $\approx 2 / 3 \text{ days}$

- Heavy traffic $\approx 3 / 7 \text{ days}$

- Swimming pools ($+23 \text{ }^\circ\text{C}$) $\approx 14 \text{ days}$

Shear Adhesion

- Dry Condition after 24 hr. - 4.5 kN

- Dry Condition after 14 Days - 17.50 kN

- Heat ageing condition - 13.00 kN

- Wet Condition - 12.50 kN

Tensile Adhesion

- Dry Condition - 2420 N

- Wet Condition - 2330 N

Complies to: IS 15477: 2019 Type 4

IS 15477: 2004 Type 4'T' S1

EN 12004 / ISO 13004 : C2TES1

Packing:

20 kg Bag

HEALTH & SAFETY:

- Use rubber hand gloves & safety goggles, while using **MAX 4009 S – 40 (LIMITLESS)**

- In case of contact with skin, wash with plenty of water.

- Keep out of reach of children.

STORAGE & LIFE:

Best before one and half years from the date manufacture when in sealed pack and stored in cool & dry place in unopened condition away from direct sunlight.

TECHNICAL INFORMATION & SERVICES:

Further information and advice, including practical demonstration are freely available with the Technical Service Department of **SEMITRONE CONCHEM PVT LTD - AHMEDABAD.**



Regd. Office: 2nd Floor, Neelmani Chambers, B/h. Sales India,
Ashram Road, Ahmedabad - 380009. Gujarat, INDIA
Ph.: +91 - 79 - 26584951 | 26584197 | 26573759
E-mail: info@semitrone.com | www.semitrone.com

SEMITRONE
CONCHEM PVT. LTD.
A CONSTRUCTIONS CHEMICAL COMPANY

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results.



Regd. Office: 2nd Floor, Neelmani Chambers, B/h. Sales India,
Ashram Road, Ahmedabad - 380009. Gujarat, INDIA
Ph.: +91 - 79 - 26584951 | 26584197 | 26573759
E-mail: info@semitrone.com | www.semitrone.com

SEMITRONE
CONCHEM PVT. LTD.
A CONSTRUCTIONS CHEMICAL COMPANY