

## REAL 475 – POLYMER ACRYLIC BASED SOIL HARDENER

### PRODUCT DESCRIPTION:

#### REAL 475 – POLYMER ACRYLIC BASED SOIL HARDENER

REAL 475 is an environmentally friendly, polymer-based solution developed to stabilize, consolidate and harden all types of soil and aggregate, while also providing dust control on surfaces.

### TECHNICAL PROPERTIES

| Property             | Value                                 |
|----------------------|---------------------------------------|
| Appearance           | Yellowish Transparent                 |
| MFFT                 | 19 ± 2 °C                             |
| Density (25 °C)      | 1.08 ± 0.10 g/mL                      |
| pH (25 °C)           | 7.5 – 9.5                             |
| Viscosity (25 °C)    | 4,500 – 8,500 mPa·s                   |
| Solids Content       | %79 ± 2                               |
| Working Time (23 °C) | Single component – no mixing required |
| Solvent              | Water                                 |
| Fire Classification  | B-s1, d0                              |
| Thinner              | Glue milk                             |

### CURING STAGE

REAL 475 – Soil Carpet Binder enters the curing process after application. Before the product has fully cured, the application surface **must be protected from water, rainfall, high humidity and pedestrian traffic.**

After application, it is recommended that the surface be kept closed to traffic for **a minimum of 24 hours**. Curing time may vary depending on ambient temperature, relative humidity, surface conditions, application thickness and air circulation.

#### APPLICATION

REAL 475 is a water-based, environmentally friendly, polymer-based soil surface hardener used to **stabilize, consolidate, harden all types of soil and aggregate and reduce dust formation on the surface.**

When applied to a soil or aggregate surface, the product forms a bond between the particles, increasing the integrity and stability of the surface. As the water in the product evaporates during application, a **flexible, durable and water-resistant polymer binder matrix** is formed between the soil and aggregate particles.

Once curing is complete, REAL 475 becomes **transparent** and helps preserve the natural appearance of the applied surface to a great extent. Thus, the natural soil and aggregate texture is preserved as much as possible while the hardness and stability of the surface are increased.

#### CONSUMPTION

REAL 475 consumption varies depending on the **particle size of the soil, aggregate or gravel used, surface structure, void ratio and desired application performance.**

The general consumption rate is recommended to be determined by a **trial application** prior to application.

#### ENVIRONMENTAL CONDITIONS

Ambient temperature should be between **+10°C and +35°C** during REAL 475 application.

- The soil or aggregate surface to be treated must not be **frozen, excessively wet or muddy.**
- Do not apply when relative humidity is **above 80%.**
- **Do not apply** in rainy weather or when rain is expected.
- After application, the surface must be protected from rain and water contact so that the product can complete curing.
- Curing time may be extended at low temperatures.
- In very hot conditions and under direct sunlight, application conditions should be considered to prevent the product from drying too quickly on the surface.
- Before application, it is recommended to **carry out a trial on a small test area** and determine the appropriate consumption rate.

**Note:** Surface moisture and weather conditions in soil and aggregate applications directly affect product performance and curing time.

#### HEALTH AND SAFETY INFORMATION

The product Safety Data Sheet (SDS / MSDS) must be read carefully for the required safety rules and detailed warnings. The following basic safety rules are recommended during application:

Protective gloves and safety goggles should be worn during application.

Direct contact of the product with skin and eyes should be avoided.

During application, care should be taken to avoid inhalation of the product and direct inhalation of aerosols that may be generated during spraying.

Ensure that the application area has adequate air circulation.

If the product comes into contact with the skin, wash with plenty of water and soap.

In case of eye contact, rinse the eyes carefully with plenty of clean water for several minutes. If irritation or discomfort persists, seek medical attention.

Do not eat, drink or smoke during application.

#### AREAS OF APPLICATION

REAL 475 can be used indoors and outdoors to **stabilize and harden soil- and aggregate-based surfaces and provide dust control.**

- Dirt roads and field roads
- Walking and pedestrian paths
- Park and garden paths
- Bicycle paths
- Landscaped areas
- Open areas and recreation areas
- Construction and service roads
- Stabilized surfaces
- Open parking areas and vehicle access areas
- Gravel and aggregate surfaces
- Soil surfaces with dusting problems
- Ground applications where a natural appearance is desired
- Soil carpet / natural aggregate surface applications

By preserving the natural appearance of the applied surface as much as possible, the product helps **bond soil and aggregate particles together, increase surface stability and reduce dust formation.**

Keep the product out of the reach of children, in its original packaging and under suitable conditions.

Read all warnings and instructions for use on the packaging carefully and follow the specified safety rules.

Important: The current Safety Data Sheet (SDS/MSDS) shall be taken as the basis for the product safety and hazard classification.

#### FEATURES AND ADVANTAGES

- **Stabilizes soil and aggregate:** It helps increase the integrity and stability of the ground by bonding surface particles together.
- **Increases surface hardness:** It helps improve the mechanical strength of the applied ground.
- **Provides dust control:** It reduces the amount of dust formation on soil and aggregate surfaces.
- **Preserves natural appearance:** It becomes transparent after curing and largely preserves the natural appearance of the soil and aggregate.
- **Water-based:** It contains no solvent and is practical to use.
- **Single-component:** Ready for use without mixing.
- **UV resistant:** It can be used in outdoor applications exposed to sunlight.
- **Forms a flexible binder structure:** It helps form a durable and flexible bond between soil and aggregate particles.
- **Can be used with various aggregate and soil types:** It is recommended to check suitability on a small test area before application.





**PACKAGING:**

The product is supplied in 30 kg plastic blue drums.



**REAL®**

Construction Chemicals

\*The product information is based on our own laboratory testing and research under normal conditions. Our company is not responsible for work carried out under unsuitable application conditions. We reserve the right to amend this information. For further details, please contact **R.Y.K.**

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