



DESCRIPTION

APSEQUARZ is a ready-to-use mixture based on natural mineral aggregates (quartz), with high hardness, suitable for protecting concrete floorings. Its high mechanical strength makes it particularly suitable for use in industries and warehouses with high handling traffic. Good aesthetic effects can be achieved in different shades of colors. It is also available with the addition of 3-5 mm microfibers. APSEQUARZ is a ready-to-use product, already pre-mixed with cement, admixtures and additions and is applied manually or mechanically on fresh concrete.

FIELDS OF USE

The main fields of use are:

- New floorings under construction;
- Residential, commercial and industrial;
- Logistics warehouses;
- Warehouses, couriers, freight forwarders;
- Interports, storage areas;
- Loading platforms;
- Airport hangars;
- Garages, parking lots;
- Ramps to garages or parking lots;
- Automotive industries, etc.

PACKAGING

25 kg polythene paper bags.

CONSUMPTION

- Consumption with manual application: first coat: about 2 kg/m²
- Second coat: about 1.5 kg;
- Consumption with mechanical application with spreader (immediate telescopic duster): up to 8-12 kg/m².

FEATURES AND BENEFITS

- Increases the mechanical strengths of the surface;
- Pleasing aesthetic effect;
- Adheres monolithically to the surface;
- Resists impact;
- Resists slipping and creeping;
- Can be coated, with METALCRIL, VERNILUX and does not generate oxidation;
- The finish can be made smooth or non-slip;
- The product meets regulations with regard to fire resistance classes;
- If treated with METALCRIL, it gives excellent resistance to weathering, freezing and thawing, the attack of de-icing salts and makes it water-repellent.

CERTIFICATIONS

APSEQUARZ complies with UNI EN 13813: materials for screeds (DoP No. 213). ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS). APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Concrete quality

The concrete casting must be formulated with a suitable aggregate to achieve the desired result. The air incorporated in the concrete must be less than 3 %. APSEQUARZ dusting should be applied to the concrete as soon as it supports a man's weight (perform footprint test), normally after 4-12 hours depending on temperature and weather conditions.

Surface preparation

Large areas of concrete should be poured using laser screed. For smaller areas, a suitable surface can be created by first setting up the level planes and levelling it with aluminium lines.



PRODUCT PREPARATION

Ready-to-use product.

APPLICATION OF THE MIXTURE

Dry-shake application

For best results, in the manual system dusting should be applied in two coats. Using a mechanical applicator (duster) one coat may be sufficient.

In manual system of Dry-shake APSEQUARZ should be applied evenly on the surface with consumption about 2 - 4 kg/ m² in two coats.

In mechanical application with spreader (immediate telescopic duster), the consumption can reach 8 to 12 kg/m².

When APSEQUARZ dusting has absorbed all moisture, the perimeter surface should be smoothed using a hand trowel for corners and edges, while the main surface will be mechanically smoothed using a vibrocompacting machine (helicopter).

To obtain a hard and smooth surface, use a helicopter with finishing blades. To achieve good smoothing on light colors use Teflon blades.

Apply the product at temperatures between +1°C and +35°C.

Application of APSERING AQ anti-evaporation and curing agent

- APSERING AQ should be applied immediately after finishing;
- APSERING AQ is applied with a low-pressure spray evenly over the entire surface with a consumption of 100 g/m².

CURING

For curing times (at +20°C), refer to the table below:

Workability time	35 min.
Setting time	60 min.
Walkability	24-36 hours
Complete curing	28 days

CLEANING OF TOOLS

Clean with water when product is fresh. Mechanically after curing.

WARNINGS

- Do not use if the bag is damaged.
- Do not add additives unless specified by the manufacturer.
- Do not add water when the product has started setting.

HEALTH AND SAFETY WARNINGS

For information on safety regulations, hazard statements and cautionary advice, rely on the latest MSDS by making a request to:

ufficiotecnico@apsebg.it

STORAGE

2 months, for the purpose of the hexavalent chromium content guideline. Up to 12 months if stored properly in original packaging and in a dry, moisture-free place. Store at temperatures between +5°C and +35°C.

DISPOSAL

Dispose of contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTIC	NORM	RESULT
Appearance	-	Powder and granules
Color	-	gray, red, green, tobacco, yellow-Gb420
Bulk density (powder)	EN 1015-6	1,8 ± 0,1 g/cm ³

QUARTZ CHARACTERISTICS

CHARACTERISTIC	NORM	RESULT
Natural quartz colors	-	White-yellow
origin	-	Metamorphic sedimentary
Grain size	-	0,50 - 0,70 - 1 - 2 - 3 mm
Loss on fire (PAF)	EN 196-2	0,2%
Mohs scale hardness	EN 101	6°-7°
Abrasion resistance Wheel	EN 1339-G	I

PRODUCT PERFORMANCE ACCORDING TO UNI EN 13813

CHARACTERISTIC	NORM	RESULT
Compressive strength at 28 days	EN 13892-2	≥ 63,25 N/mm ²
Flexural strength at 28 gg	En 13892-2	≥ 9,10 N/mm ²
Abrasion resistance Böhme	EN 13892-3	5,4 cm ³ /50cm ²
Reaction to fire	EN 13501-1	A1 _{fl}

The above data are information obtained based on our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. in any way. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please feel free to check the most up-to-date version of this Data Sheet on our website www.apse.it

