

TECHNICAL DATA



Acrylic quartz flooring

DESCRIPTION AND USES

Acryliquartz is a low VOC water borne acrylic that is combined with coloured aggregates to produce a thin layer at a decorative, seamless and flexible quartz flooring system suitable for both interior or exterior installations subject to high pedestrian traffic.

The system consists of a low viscosity liquid that is used to both prime substrate & seal the quartz layer and of a viscous gel binder to be blended on site with coloured quartz sand to form a mixture that can be easily spread by trowel at 3 mm (1/8") nominal thickness. Both these components contain a special filler that will act as a barrier to ultra violet rays.

High flexibility and scuff resistance make Acryliquartz particularly well suited for interior or exterior patios, cafeterias, hallways, pool decks, walkways or around private or public buildings when optimal economy/ quality ratio must be maintained.

FEATURES

- Aesthetical appearance in thin layer
- Designed for high pedestrian traffic
- Flexible yet durable, resistant to scuff and UV
- Economical, very smooth to trowel
- Seamless, easy maintenance

APPLICATION INSTRUCTIONS

Surface preparation

Concrete: Mechanical pre-treatment to remove efflorescence. Surface must be free of curing compound, dirt, grease, oil or any other contaminant. Existing cracks must be routed and filled with Duropli (2 component epoxy-polysulphide joint filler).

Plywood: Dry, brand new and at least 14 mm (5/8") thick with grooved edges to lock in place. Must be fastened to structure with screws (no nails). Screw heads must be filled and joints detailed with Duropli or Duochem 387. Surface must be free of dirt, grease, oil or any other contaminant

Application

Prime surface with the primer-sealer liquid formula using a short to medium nap roller to a rate of coverage ranging from 60-120 m²/l (260-520 ft² /US gal.) depending on surface. After surface becomes slightly tacky (at least 30 minutes), blend coloured quartz aggregate (trowel grade 20 mesh) into the binder gel at a rate of 3 Kg/litre (25 lbs/ US gal.) and spread on the surface at nominal 3 mm (1/8") thick. Although there is no true end of pot life with this mixture, it is recommended not to blend more than what can be applied within a two hours.

ACRYLIQUARTZ

APPLICATION (Cont'd)

Allow to dry overnight (12 hours minimum) then grout with the primer-sealer liquid formula with a flat squeegee at approximately 3 m²/litre (125 ft² /US gal.). Let dry at least 4 hours then grout again (no spike shoes) with another coat of primer-sealer liquid formula with a flat squeegee or short nap roller at approximately 6.5 m²/litre (265ft²/US gal.). Let dry overnight (12 hours minimum) before returning the floor to service.

This procedure will produce a quartz flooring of 3-4 mm (120-160 mils) thick.

PRECAUTIONS

- Consult Material Safety Data Sheet before using.
- Ensure that surface temperature is at least at 7°C (39°F) and exceeds dew point temperature of ambient air by at least 3°C (5°F)

TECHNICAL INFORMATION

Generic:	One component water borne acrylic
Color:	Standard blend of colours quartz aggregates. See Duo-tone colour chart.
Solids	32% volume, 39% weight (Acryliquartz alone) 78% volume, 61% weight (with aggregates)
V.O.C.	49 grams per litre (Acryliquartz alone) 12 grams per litre (with aggregates)
Primer:	Acryliquartz primer-sealer with roller
Aggregates:	3 kg/l (25 lbs / US gal) colored quartz 0.40 mm (20 mesh) in Acryliquartz binder.
Application:	Stainless steel trowel
Finish coat:	Acryliquartz primer-sealer In 2 coats with flat squeegee and/or roller

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Recommended thickness:

Primer:	75-150 microns (3-6 mils) wet depending on surface	Sealer (1 st):	325 microns (13 mils) wet
Trowel mixture in binder:	3 mm (1/8") nominal	Sealer (2 nd):	150 microns (6 mils) wet

Coverage at 3 mm (1/8"):

Primer:	6-12 m ² /L (260-520 ft ² /US gal.)	Cleaning solvent:	Cool to warm water (do not use hot water – resin will coagulate)
Sealer (1 st):	3 m ² /L (125 ft ² /US gal.)	Dilution solvent:	Not recommended
Sealer (2 nd):	6.5 m ² /L (265 ft ² /US gal.)	Shelf stability:	1 year in non-opened containers stored above 5°C (41°F)
Total Primer-Sealer:	2 m ² /L (80 ft ² /US gal.)	Packaging:	Binder Gel and Sealer 3.78 and 18.9 litres Quartz aggregates sold separately.
Binder:	± 0.7 m ² /L (± 28 ft ² /US gal.)		

PHYSICAL PROPERTIES

(total system hardened at least 7 days at 23°C - 73°F)

<u>PROPERTIES</u>	<u>METHOD</u>	<u>RESULTS</u>
Tensile strength	ASTM D-638 Type IV @ 5 mm/min.	0.5 MPa (73 psi)
Elongation at break	ASTM D-638 Type IV @ 5 mm/min.	35 %
Tear strength	ASTM D-624 Mold C at 500 mm/min	6.6KN/m thick (37.6 lbs per inch thick)
Water vapour transmission	ASTM E-96 Water method	2.66 grams/hour.m ² (3.8 grains/hour.ft ²)
Water vapour permeance	ASTM E-96 Water method	487 nanograms/PA.sec.m ² (8.5 perms)
Bond strength	ASTM D-4541 On concrete	1 MPa (149 psi) coating cohesion failure
Taber abrasion	ASTM D-4060 (1000 revolutions & 1 Kg per wheel) CS-17 wheels H-22 wheels	41 mg loss 2988 mg loss*

* Standard 28 MPA concrete exhibits 3,800 mg weight loss when tested per same method.

This information is based on tests we believe to be reliable. Since conditions of use are beyond our control, we do not assume any liability except the replacement of an equal quantity of any product which is proven defective and for which we are responsible.