BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET
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FLUID-APPLIED FLOORING

Sikafloor® Duochem-9205

CLEAR EPOXY BINDER RESIN

Description

Sikafloor® Duochem-9205 is a two component, high solids, low odour, low VOC, high strength, high gloss, clear epoxy resin. Typically used as a binder for trowel or broadcast floor systems. Sikafloor® Duochem-9205 is a primary component resin used as a clear binder for the installation of decorative, multicolored quartz aggregate and multicolored flake systems; Sikafloor® Quartzite® Broadcast and Sikafloor® DecoFlake®. This general service epoxy resin demonstrates good mechanical and chemical resistance.

Where to Use

- As a primer and body coat component resin for decorative broadcast aggregate and flake systems.
- As a primer and binder resin for epoxy trowel screeds.

Advantages

- Easy to mix and apply.
- Low VOC content.
- Low odour.
- Good chemical resistance.
- Good abrasion resistance.
- Canadian Food Inspection Agency acceptance.

Technical Data

Packaging	28.35 L (7.48 US gal.) unit
Colour	Clear
Yield	4 m²/L (160 ft²/US gal.) at 10 mils w.f.t.
Shelf Life	2 years in original, unopened packaging under proper storage conditions. Store dry between 5 - 32 °C (41 - 89 °F). Condition product to between 18 - 30 °C (65 - 86 °F) before use.
Mix Ratio	A:B= 2:1 by volume

Properties at 23 °C (73 °F) and 50 % R.H.

Solids Content	
By volume	100 %
Pot Life, 250 g (8.8 oz)	30 min at 21 °C
Drying Times	
Touch dry	6 - 8 hours
Recoat time	8 - 12 hours
Overcoat time	12 - 48 hours
Foot traffic	24 hours
Full cure	7 days

Drying times will vary according to air and substrate temperature and humidity.

Compressive Strength ASTM C579	
5 - 6 mm/minute	51.8 MPa (7511 psi)
Tensile Strength ASTM C307	
5 - 6 mm/minute	9.2 MPa (1334 psi)
Flexural Strength ASTM C580	
22.9 cm (9 in) at 3.4 mm/min	15.9 MPa (2306 psi)
Modulus of Elasticity in Flexion ASTM C580	
22.9 cm (9 in) at 3.4 mm/min	4897 MPa (710 065 psi)
Bond Strength ASTM D4541	
On concrete	> 4.2 MPa (> 609 psi)
Shore D Hardness ASTM D2240	79
Water Permeability and Absorption ASTM D570	
24 hours permeability	2.9 g/m²
24 hours immersion at 23 °C	0.05 %
7 days immersion 23 °C	0.19 %
2 hours immersion in boiling water	-0.02 %
Colour Stability ASTM D-2244 1-GP-71 (120.1)	
96 hours in « Fade-O-Meter »	
Coloured quartz	0.62
White quartz	5.54
VOC	1 g/L

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matters, coatings and deleterious material from the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI-CSP 3-4. The compressive strength of the concrete should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sikafloor® Duochem-9205.

Mixing

Pre-mix each component. Empty component B into component A pail or add component B in the correct mix ratio to component A. Mix for three (3) minutes using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an *Exomixer*® type mixing paddle (recommended model). During the mixing operation, scrape down the sides and bottom of the pail with a flat or straight edge trowel at least once to ensure thorough mixing. Upon completion of mixing, Sikafloor® Duochem-9205 should be uniform in colour and consistency. Mix only that quantity you can use within its pot life.

Application

Primer: Apply neat Sikafloor® Duochem-9205 over the prepared concrete slab as a primer using a brush, roller or squeegee at a uniform coverage without ponding. Allow primer to cure sufficiently to be able to resist foot traffic without damaging the surface.

Broadcast binder: When the primer coat has cured sufficiently to allow foot traffic, apply a neat broadcast binder coat of Sikafloor® Duochem-9205 by squeegee and backroll immediately with a roller to provide a uniform surface. Broadcast selected aggregate or flakes into the wet Sikafloor® Duochem-9205 binder, to "saturation". Broadcast in a manner so that the aggregate falls vertically into the binder. Allow the broadcast layer to cure sufficiently to be able to resist foot traffic, without damaging the surface, before proceeding with the second broadcast application or top coats.

Clean Up

Clean all tools and equipment with Sika® Duochem-201 cleaning solvent. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Sikafloor® Duochem-9205 when used with Sikafloor® decorative floor systems, are best installed by experienced applicators. Consult Sika Canada Technical Sales for advice and recommendations.
- Minimum/Maximum substrate temperature 10 °C/30 °C (50 °F/86 °F).
- Maximum relative humidity during application and cure: 85 %.
- Substrate temperature must be 3 °C (5.5 °F) above the measured dew point.
- Moisture content of the substrate must be < 4 % when coating is applied or use Sikafloor®-81 EpoCem®CA.
- Do not apply to porous surfaces where moisture vapour transmission will occur during application.
- Not suitable for use on exterior, slab-on-grade concrete substrates.
- Protect from dampness, condensation and water contact during the initial 24 hour cure period.
- Surface may discolour in areas exposed to constant ultra violet light.
- Do not hand mix Sikafloor® materials / mechanical mix only.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

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FOR INDUSTRIAL USE ONLY

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