

SPORTS SURFACES

DATA SHEET

COMFORT COATING WS

Concentrated coloured acrylic resin-based coating for tennis courts laid with Surface Evolution, Confosport and Confosport PM systems

CHARACTERISTICS

Comfort Coating WS is a concentrated coloured acrylic resin-based coating in water emulsion used as finish for elastic flooring laid with the Surface Evolution, Confosport and Confosport PM systems. The Surface Evolution system is tested by the ITF (International Tennis Federation) in Speed Class 2 (medium-slow), while the Confosport system is tested by the ITF in speed class 3 (medium).

APPEARANCE

High viscosity coloured paste.

CHARACTERISTICS OF THE LIQUID PRODUCT

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm ³	1,25	± 0,1
Dry mass residue	%	54	± 3
Dry volume residue	%	43	± 3
Residue at 450°C	%	26	± 3
Brookfield viscosity (with Brookfield viscosimeter rotor no. 6, speed 4)	mPa·s	145000	± 2000
pH	-	8	± 1

APPLICATION METHOD

Add quartz sand (type 0.1 – 0.3 mm selected and dry) and clean water (approx. 30% of the total weight of the mixture) mixing slowly. Continue until the mixture is perfectly uniform. The mixture may be mixed by hand or in a cement mixer.

Depending on the system chosen, the Comfort Coating WS/quartz sand mixture should be prepared as follows:

Surface Evolution System	Confosport System	Confosport PM System
FIRST COATING 50 : 50	FIRST COATING 50 : 50	FIRST COATING (levelling) 40 : 60
SECOND COATING 50 : 50	SECOND COATING 50 : 50	SECOND COATING 50 : 50
THIRD COATING 50 : 50	THIRD COATING 50 : 50	THIRD COATING 50 : 50
		FOURTH COATING 50 : 50

For a smoother finish the last coating may be applied in a mixing ratio of Comfort Coating WS/quartz sand = 60 : 40

LAYING INSTRUCTIONS

Tools	Thinner	Type of thinner	Cleaning tools
Rubber spatula	Approx. 30 % of total mixture (resin + sand)	Water	Water

IMPORTANT: in the case of usage as smoother for Confosport PM system we suggest to dilute the material with 10 – 15 % by weight of clean water.

CONSUMPTION

The recommended coverage for the Surface Evolution System is 1 Kg./sq.m. of Comfort Coating WS + 1 Kg./sq.m. of sand applied in 3 coatings (0.5 Kg./sq.m. of Comfort Coating WS + 0.5 Kg./sq.m. of sand for the first coating; 0.25 Kg./sq.m. of Comfort Coating WS + 0.25 Kg./sq.m. of sand for the next coatings). Coverage may vary according to the porosity of the Surface Evolution layer.

The recommended coverage for the Confosport system is 0.75 Kg./sq.m. of Comfort Coating WS + 0.75 Kg./sq.m. of sand applied in 3 coatings (0.25 Kg./sq.m. of Comfort Coating WS + 0.25 Kg./sq.m. of for each coating).

The recommended coverage for the Confosport PM system is 1.35 Kg./sq.m. of Comfort Coating WS + 1.65 Kg./sq.m. of sand in 4 coatings (0.6 Kg./sq.m. of Comfort Coating WS + 0.9 Kg./sq.m. of sand for the first coating; 0.25 Kg./sq.m. of Comfort Coating WS + 0.25 Kg./sq.m. of sand for the next coatings).

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LAYING SURFACE

The deck varies according to the type of system laid:

- In the Surface Evolution system, the layer of elastic resin applied must be uniformly rough, without laying flaws or humid areas. The surface should be sanded only after the first coating of Comfort Coating.
- In the Confosport system, the rubber deck (Spormat) should be levelled with Comfort Sealer and, in the case of fully glued systems, the surface should be fully and uniformly glued with no raised joints.
- In the Confosport PM system, the deck laid on site should be allowed to harden perfectly and bound.

IMPORTANT: resin surfaces are generally waterproof (non-draining), so that the deck should be sloped correctly to ensure efficient rainwater run-off and prevent pooling. Any corrections that may be required should be made before laying the final coating; if necessary, please consult the Technical Office of Casali S.p.A.

APPLICATION INSTRUCTIONS

Ambient temperature: MIN 10°C - MAX 40°C

Ambient relative humidity: MAX 90 %

Laying surface temperature: MIN 5°C - MAX 50°C

DRYING AT 23°C AND R.H. OF 50%

On surface	1 h
To touch	2 h
Interval between coatings	4 h

The times indicated refer to standard laboratory conditions. Curing times are strongly affected by weather conditions; high temperatures and direct sunlight accelerate curing; shade, low temperatures and high levels of humidity slow down curing. In winter, lay the product in the warmer hours of the day. Always allow the coating to dry perfectly before applying the next coating.

PACKAGING INSTRUCTIONS

Colours available	Red (102), Green (201), Dark green (202), Blue (303), Light blue (302), Grey (413), Orange (151), Violet (502), Deep blue (319), Violet (507), Red clay (113) and other on request.
Packaging	40 kg. drums

STORAGE INSTRUCTIONS

Storage temperature:	MIN 3°C - MAX 40°C
Stability in the original package:	12 months

IMPORTANT INSTRUCTIONS

Do not apply the product in the case of fog, high humidity levels, rain or frost. The conditions of the deck must be checked to ensure that it is plane, resistant, consistent that the granule grading is correct in order to prevent imperfections on the surface. Repairs and/or filling must be carried out according to the specifications of Casali S.p.A. Check for rising dampness and/or infiltrations, if necessary contact the Technical Office of Casali S.p.A.

SAFETY STANDARDS

Please read the safety data sheet carefully before using this product.

CERTIFICATION

Comfort Coating WS is tested in accordance with and is compliant to standard EN 1297 (Synthetic coverings for outdoor sports areas - Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water).

All standard colours contribute effectively to the containment of the heat barrier effect (CAM/GPP-EC Decree) by achieving SRI (Solar Reflect Index) >29. For example, the light blue 302 colour has an SRI of 49. Please consult the Casali S.p.A. technical department for the data of the individual colours.

All material - in perfect accordance with the Minimum Environmental Criteria (CAM) standards and the "Waste Hierarchy Principle" that rewards prevention in the production of waste itself - is packaged in 100% recyclable metal drums. Due to the packaging of the resin formulation inside plastic bags, these drums remain completely clean at the end of the product's use and therefore, as opposed to the usual plastic containers, entirely recyclable. This reduces the production of plastic packaging and packaging waste by more than 94%, significantly reducing the loading, transport and delivery of these non-recyclable materials to authorised PPWDs.

*The data provided by these data sheets are approximate and the Company reserves the right to modify the same for technical reasons, without prior notice. The solutions proposed do not represent all the possible uses but are merely case studies deriving from Casali's installation experience and are therefore intended only for purposes of illustration. The user is exclusively responsible for the way the products illustrated are used, whether properly or improperly, for evaluating in advance the suitability or otherwise of the product for its requirements and exerting the utmost caution in handling chemical products. **Important: to ensure best colour uniformity of surface laid products, we recommend that you use materials from the same production lot as finishing layer. The Technical Office of Casali's Synthetics Division is at your complete disposal for any further specific information or explanations you may require (phone 071 9162095).***

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