

# SPORTS SURFACES

DATA SHEET

## COLORSINT WS

**Concentrated coloured acrylic resin based coating  
formulated to lay cycling lanes on asphalt decks**

### CHARACTERISTICS

Colorsint WS is a coloured, concentrated acrylic resin based coating, in water emulsion, developed to lay cycling lanes, cycling-pedestrian lanes and urban decoration. Thanks to the addition of selected sands, the product is resistant to abrasion, weather, ultraviolet radiation and the aggressive action of fuels in general.

The main advantages of the product are:

- High resistance to lubricants
- Available in a wide range of colours
- Protects the asphalt surface from high and low temperatures
- Increases the life of the asphalt surface
- High resistance to abrasion and UV rays
- Excellent colour stability
- Easy laying
- Cold laying
- Resistance to fuels (Centro Sperimentale Stradale ANAS Spa, Reference Method: AM – GEN – M- P 0017 – PAR 6.5)

If the coating is to be used for parking areas, please consult the Technical Office of Casali S.p.A. for more information. Colorsint WS may also be applied on cement decks but in this case please consult the Technical Office of Casali S.p.A.

### APPEARANCE

High viscosity pigmented paste.

### CHARACTERISTICS OF THE LIQUID PRODUCT

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm <sup>3</sup>	1,24	± 0,1
Dry mass residue	%	54	± 0,5
Dry volume residue	%	43	± 0,5
Residue at 450°C	%	26	± 2
Brookfield viscosity (with Brookfield viscosimeter rotor no. 6, speed 10)	mPa·s	30000	± 3000
pH	-	8	± 1

### LAYING INSTRUCTIONS

Tools	Thinner	Type of thinner	Cleaning tools
Rubber squeegee	30% of the total mixture (resin + sand)	Water	Water

### LAYING SURFACE

The product may be applied on new or old asphalt decks, provided the same are in good condition and well compacted.

The deck should be perfectly clean, with no traces of oil, dust or grease. Different types of decks should be evaluated on a case by case basis, taking into account that it may be necessary to apply a primer. New asphalt decks should be allowed to cure for at least 3 - 4 weeks to ensure partial oxidation of the deck, then cleaned with a high-pressure washer.

**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. for more information.

### CONSUMPTION

The recommended coverage of the product mixed with sand on bitumen mat is at least 0.9 Kg/sq.m. of Colorsint WS + 1.1 Kg/sq.m. of sand applied in 3 coatings (0.4 Kg/sq.m. of Colorsint WS + 0.6 Kg/sq.m. of sand for the first coating and 0.25 Kg/sq.m. of Colorsint WS + 0.25 Kg/sq.m. of sand for the next coatings). The recommended coverage on cement is at least 0.7 Kg/sq.m. of Colorsint WS + 0.8 Kg/sq.m. of sand in 3 coatings (0.2 Kg/sq.m. of Colorsint WS + 0.3 Kg/sq.m. of sand for the first coating and 0.25 Kg/sq.m. of Colorsint WS + 0.25 Kg/sq.m. for the next coatings).

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## APPLICATION METHOD

Slowly add the quartz sand (0.1-0.3 mm selected and dried) and clean water (about 30% of the total weight of the compound) stirring the mixture until it is perfectly smooth and free from lumps. The compound may be mixed with a hand mixer or in a concrete mixer. Apply 3 coatings using the following Colorsint WS / quartz sand weight ratio

FIRST COATING 40:60

SECOND COATING 50:50

THIRD COATING 50:50

To obtain a smoother finish, apply the last coating with a Colorsint WS / quartz sand mixing ratio of 60:40

## 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. Drying times are strongly influenced by the weather; high temperatures and direct sunlight accelerate drying; shadows, low temperatures, high humidity delay drying. In winter, lay the product in the central and warmer hours of the day. Always ensure that the previous layer has hardened correctly before applying the next layer.

## CHARACTERISTICS OF THE DRY PRODUCT

The product specifications are shown by the ANAS S.p.A. (National Roads Authority) certificate number 2946/0876/00 dated 19/10/2000

## 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) 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 foggy or damp weather, or if rain or frost are forecast. Ensure that the deck is perfectly flat and resistant, and has the correct grading to prevent flaws on the surface. Repairs and/or filling should be made in accordance with the instructions of Casali S.p.A. Check for rising damp and/or infiltrations, and if necessary contact the Technical Office of Casali S.p.A. for more information.

## SAFETY STANDARDS

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

## CERTIFICATION

Colorsint 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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