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Tardigrade ECSP 260

Two Component, Solvent Free, Epoxy Based Floor and Wall Paint

Description of Product

Tardigrade ECSP 260, is a solvent free, two-part epoxy resin based floor & wall paint and coating.

Fields of Application

- On concrete and cement based mineral surfaces
- Normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages, loading ramps
- Pedestrian walkways, parking lots and power plants
- Hospitals, laboratories, operating rooms, and in hygienic areas such as food and laundry facilities

Advantages

- High bond strength
- Solvent free
- Easy application
- Hygienic and easy to clean
- Resistant to mechanical loads, abrasion and chemicals

Appearance

Mix (Part A + Part B) : Ral Colors

*Differences in color may occur under influence of direct sunlight. This does not affect the physical and chemical resistance of coating.

Packaging

Part A	: 26,10 kg. net	- Part B	: 3,90 kg. net
Total Set	: 30 kg. net	- Total Set	: 32,55 kg. gross

Part A	: 5,22 kg. net	- Part B	: 0,78 kg. net
Total Set	: 6 kg. net	- Total Set	: 6,90 kg. gross

*Barrels are available if requested.

Storage

Store in original sealed containers in dry environment at temperatures between +10°C and +30°C. Do not put excessive loads on top of the products, which would damage the packaging.

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Shelf Life

12 months from date of production if stored in original unopened containers. Once opened, product should be consumed within one week as it is stored under appropriate storage conditions.

Chemical Structure

Part A: Epoxy Resin

Part B: Epoxy Hardener

Technical Specifications

All technical values were calculated based on +23°C and 50% relative humidity. Temperature and humidity changes would change technical values.

Tardigrade ECSP 260 Technical Data

Density	Mixed Resin: 1,60 kg/liter (\pm %3)
Viscosity	Mixed Resin: 3.000-8.000 mPa.s
Shore D Hardness	7 days: 75-85 (ASTM D2240-05)
Compressive Strength	28 days: > 75 N/mm ² (ASTM D695-10)
Flexural Strength	7 days: > 30 N/mm ² (ASTM D790)
Bond Strength	7 days : > 3 N/mm ² (Concrete) (ASTM D7234)
Abrasion Strength	7 days : < 55 mg (CS 10/1000/1000) (ASTM D4060-14)
Duration of Use After Mixing	50 - 70 minutes
Total Curing Time	7 days

Preparation of Substrate

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 2,0 N/mm². The residual moisture content of the substrate must not exceed 4%, the substrate temperature should remain a minimum of +8°C and the temperature of the substrate must be at least +3°C above the current dew point temperature.

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Capillary pores where in the concrete surface should be filled. Oil-contaminated substrates must be pre-cleaned with an emulsifying cleaning detergent in accordance with the supplier's instructions. Then the surface is cleaned using high-pressure water jetting. Excess water is removed from the surface by wet and dry vacuum cleaner.

Cleaned surface must be scraped with a suitable method either grinding, shot blasting or sanding and the surface must be roughed. After the mechanical cleaning, the dust layer should be swept with the help of industrial vacuum cleaners. If in doubt of the surface, apply a test area first. Do not apply on wet or frozen surfaces and surfaces with high humidity.

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Application Conditions

During the application, ambient temperature should be between +10°C and +30°C. Relative Air Humidity should not exceed 80% and the substrate temperature should be between +8°C and +30°C. Substrate moisture should be maximum 4%. Substrate temperature must be at least +3°C above the current dew point temperature. The surface should be primed with the appropriate Tardigrade primer.

Mixing

Make sure that the product temperatures are between +10°C and +30°C before starting the mixing procedure. Prior to mixing, stir part A with a mechanical drill and paddle at a very low speed.

Add component B gradually into component A and mix with a low speed till you reach a homogeneous consistency (Approximately 3 minutes).

Pour the contents into a clean container and stir for another couple minutes at a low speed to obtain a mixture and prevent possible mixture failures. Please avoid mixing on high speed and long time, and do not add any solvent, thinner etc. into the mixture during the application procedure.

Application Procedure

With the above mentioned ideal surface and weather conditions;

Avoid application under excessive wind and/or rain when the ambient temperature is below +10°C or above +30°C. When necessary, heaters and dryers should be used to measure the ambient humidity and substrate temperature and the workability of the product. A surface which does not have sufficient waterproofing should not be coated.

After the mixing procedure, Tardigrade ECSP 260 can be applied to a surface, which is already primed with appropriated Tardigrade primer, with short pile roller or airless spray equipment. If spray equipment used, use of preventive health and safety equipment is required. Make sure that a continuous, pore free coat covers the substrate.

Two coats of application should be done and waiting time between coats should not be more than 24 hours. If this time is exceeded, the surface must be roughened again before the second coat. For accurate and precise color matching, be sure to use the same production / serial number Tardigrade ECSP 260 in each field.

Mixed product should be applied in max. 30 minutes in about +23°C. Waiting time between coats should be minimum 10 hours in +23°C and maximum 48 hours. If waited more than 48 hours, the surface should be grinded. The product would be completely cured in a minimum of 7 days to reach its maximum mechanical and chemical resistance.

In case heating is needed, do not use gas, oil, paraffin or other fossil fuel heaters. Use only electric powered warm air blower system. Reaction times of resin based systems change depend on ambient conditions. The duration of the chemical reaction and the duration of the work also change accordingly. Therefore, this detail should be considered properly during application. Under lower temperatures reaction times are longer which increases pot life, coating interval and working time. High temperatures increase chemical reactions and the above-mentioned time decreases accordingly.

After application, the material should be protected from direct contact with water minimum for 48 hours. Within this period, contact with water can cause a surface carbonation and/or surface tackiness, both of which must be removed. In such cases overall coating should be removed from the floor and renewed.

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In order to maintain the surface appearance that has been exposed after the application of the Tardigrade ECSP 260, the particles must be cleaned immediately and cleaned regularly using surface cleaning machines, rotary brushes, high pressure washers, vacuum cleaners and appropriate cleaning and polish materials.

Epoxy and polyurethane based floor systems should be applied by expert contractors and applicators.

Cleaning of Tools

Clean all tools and application equipment with thinner immediately after use. Hardened/cured material can only be mechanically removed.

Coverage

Tardigrade ECSP 260 A + B mixture is used in coating systems and its consumption varies according to usage of it in the system. Please refer to the system recommendations for proper consumption quantities.

** Coverage increases as the viscosity gets higher at lower temperature.*

Health and Safety Information

The following protective measures should be taken as per Occupational Health and Safety (OHS) regulations when working with the material. Safety gloves, goggles and protective clothing should be worn. Due to irritation effects of the uncured material, components should not come in contact with the skin, mouth or eyes.

In cases of contact the affected area should be washed with plenty of water and soap. If swallowed, seek medical attention immediately. Do not drink or eat at the application site. Keep out of reach of children. For detailed information please refer to the safety information form (safety data sheet).

Product Liability

Tardigrade Construction Chemicals Inc. is just responsible for the quality of the Tardigrade labelled products. All the data referred herein are gathered as a result of practical and scientific studies. Tardigrade cannot be legally obligated or responsible for any damage unless correct product is used accurately in suitable areas and under right conditions.

Legal Notes

All the information and references herein regarding Tardigrade labelled products are provided in good faith, if kept and interfered in accordance with normal conditions, recommendations, and with knowledge and experience. Along with products, areas of use and surfaces can cause many differences. It is necessary to make sure that the right products with Tardigrade trademark are applied on suitable surfaces under normal conditions. Moreover, all the above given information and instructions regarding technical compatibility with commercial factors must be strictly followed. The manufacturer cannot be held responsible for any damage or problems that may arise if not followed. The applicator / user is obliged to carry out the relevant checks to ensure about these details. The specifications of the Tardigrade branded products may be changed if necessary. The property rights of third parties must be observed. All the technical requirements for sale and shipping are valid when the order is approved.