KERASEAL ADO20

Solvent Based epoxy floor coating

DESCRIPTION

KERASEAL ADO20 is two component solvent-based phenols, epoxy resin floor system. It is available no circuit and good general chemical resistance.

USE

- Food and beverage manufacture
- Pharmaceutical production
- Precision engineering manufacture
- Hospital and hygienic areas
- The basement and trade center
- Electronics manufacturing and assembly

ADVANTAGES

- Good wear and abrasion resistance
- Excellent bacteria resistance
- Withstand the traction of shaping tape
- Resistance to general chemical
- Gloss finish
- Hygienic and easily cleaned
- Economical and easily applied
- Attractive colors.

STORAGE

12 months from date of manufacture, when be stored correctly in original packaging, avoid sunshine, temperature from 20°C - 40°C.

PACKAGING

KERASEAL ADO20 is supplied in 18kg per set

COVERAGE

For estimating the quantity of materials required uses the following:

75µm : 0.10 kg/ m2

PRODUCT PROPERTIES

Solid content	80%
Working time	45 - 60 mins
Minimum thickness	50µm
Min. Recoat time	12 hours
Max. Over Recoat time	72 hours
Surface drying time (ASTM D1640-14)	≤ 6 hours
Shelf life (JIS K5551:2002)	25 mins
Bond strength (ASTM D4541)	≥ 2.0 Mpa
Abrasion strength (JIS K5600-5-8:1999)	≤ 65 mg
Impact Strength (ISO 6272-2:2011)	≥ 50 kG.cm
Concentration of organic compounds evaporation (VOC) (ISO 11890-1:2007)	≤ 55%
Flexural Strength (TCVN 2099-2013)	≤ 3mm
Smoothly (not greater than) (TCVN 2091:2015)	30µm

Chemical resistance (According to the detailed chemical resistance)

Service temperature: -20ºC – 60ºC

Discontinuous in 7 days: 60ºC

Discontinuous in 12 hours: 80ºC

Do not exposed in chemical and mechanical impact at same time

APPLICATION METHOD

Concrete conditions

Concrete surface must be smoothed and flattened, concrete must be solid with compressive strength of 25N/ mm2 and the tensile strength should be minimum 1.5N/ mm2. The concrete shall be designed with moisture resistant system or withstand reverse osmosis.

Preparation

KERAGUARD ADO20 must be applied to a clean surface. These should be removed by specialized chemical and then followed by mechanical preparation such as Shot Blasting or Surface Planning. Uneven floors or damaged areas should first be by leveled by using a suitable repair material such as KERACRETE RM120 or KERACRETE NS50. The moisture content in the substrate should be less than 6% when measured by suitable moisture meter.

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Limitations

In order to achieve homogeneous color, should be used the same batch of production in one area.

Under direct sunlight or in an area with strong light strength can affect color of the material (discoloration or yellowed). This has no influence on the function and performance of the coating.

Note on application:

- Substrate moisture content < 6%
- Min. substrate temperature +15ºC
- Max. substrate temperature +39ºC
- Maximum relative air humidity 85%
- Substrate temperature must be at least 3ºC above dew point

Mixing

Mixing should be carried out using a slow speed mixer, no more than 600-rpm with a suitable mixing attachment. First mix the Part A for 2-3 minutes to reconstitute any settlement from storage. Add the Part B to the Part A and mix a further 2-3 minutes until the color is homogeneous.

To reduce air entrapment avoid over mixing the coating.

Note: Once this material is mixed it cannot be resealed for later use

Application

For application by short hair roller, apply evenly the mixed KERASEAL ADO20 on to the prepared substrate and roller out until the desired coverage rate is achieved.

For application by airless spray a single line piston pump with a 20:1 ratio may be used, using a 0.015inch tungsten nozzle tip. For best results add up to 5% APT Spraying Thinners to aid spray application.

CURING

Temp	Walking	Light Traffic	Full Traffic
+10°C	24 h	3 days	10 days
+20°C	18 h	2 days	7 days
+30°C	12 h	1 day	5 days

MAINTENANCE

CARE: KERASEAL ADO20 can be easily maintained by damp mopping using a neutral cleaner. For more heavily soiled areas an alkaline cleaner may be necessary followed by complete rinsing with clean water.

CAUTION: Heavy objects dragged across the surface will scratch all floor coatings. Avoid gouging or scratching the surface

CLEANING EQUIPMENT

Clean equipment and tools immediately after use by Solvent.

SAFETY PRECAUTIONS

The product's components have been formulated to optimize physical characteristics such as strength and chemical resistance while minimizing hazardous physical and health factors encountered during application. A concerted effort is made to be aware of the latest chemical toxicological information and to apply this knowledge in a responsible manner to ensure product safety. Please wear respirator when necessary.

During application of APT product, always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed or confined areas. Air movement must be designed to insure turnover at all locations in work area and adjacent areas to avoid buildup of heavy vapors. Use caution when handling flammable liquids in work area and containers with residues. Observe safe storage practices by separating resins from hardeners, by keeping solvents in a cool area, free of sources of ignition. Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

For application questions, please contact your salesman or APT technical service: +84 904 339 299

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