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TDS R17: **KBS CHAR 21** - General description

GENERALLY:

KBS CHAR 21 is used for fire protection of steel structures, concrete and reinforced concrete structures, concrete and masonry partitioning walls and in other application fields. In structural resistance-to-fire applications it provides protection against fire for up to 2 hours.

FUNCTION AND COMPOSITION:

KBS CHAR 21 is a very low VOC, waterborne, high performance intumescent coating providing a very effective fire barrier thanks to high active solids content, char strength and the use of nanofillers. Fast development of a stable, low heat transfer char provides effective and long term protection to flammable and non-flammable substrates.

COLOUR:

White

DENSITY:

1.3 ± 0,05 kg/dm³

pH-VALUE

Approx. 7.8

SOLID CONTENT:

78% ±5%w/w - 67% ±5%v/v

SPREADING RATE:

0,55 ± 0,05mm dry film thickness with 1kg/m² wet (theoretical)

SHELF LIFE:

12 months in original packing and proper environment

APPLICATION:

Normally by airless spray. For small surfaces or retouching by roller or brush.

WET THICKNESS PER COAT:

Airless spray: max 1300 µm (750 µm DFT)
Brush or roller: max 500 µm (300µm DFT)

THINNING:

Not recommended If necessary with water max 5%

DRYING TIME:

8 hours - touch / 24 hours - complete

MIN APPLICATION TEMPERATURE:

+5°C

MAX APPLICATION TEMPERATURE:

+45°C

PRODUCT N.O

A007

CERTIFICATIONS AND APPROVALS:

KBS CHAR 21 comes with European certification type approvals in Europe. For the fire protection of steel structures, assessment and classification reports are available according to EN 13381-4, for walls and reinforced concrete systems according to EN 13381-3. Classifications are in accordance with EN 13501-2. Reaction to fire classifications according to EN 13501-1 and other special application reports are also available.



RECOMMENDED THICKNESS :

For calculation of DFT (dry film thickness) a factor called Hp/A (heated perimeter divided by cross sectional area) is used. KBS CHAR 21 is applied as an intermediate coat in a coating system (primer, intermediate and top/finish coat). Because of the relatively low thickness of KBS CHAR 21, nice finish and anti-corrosive nature, this coating is preferred aesthetically and performance-wise. It should be noted that steel attains critical core temperature depending on the Load utilisation in the fire limit state [µ0]: 10-90 %. The design of the KBS CHAR 21 is based on classification according EN 13501-2, and the instructions given in Eurocode 3. The lower Load utilisation in the fire limit state [µ0] is the smaller amount of fire protection paint is required. If you do not have data for [µ0] you can use 80% for columns and 66% for beams. This is on the safe side in all the static cases, but may give an over-dimensioning of the amount of paint. Therefore we recommend to obtain the real utilization for each steel section from the steel constructor (see design tables and more information at www.kbs.se).

PACKAGE SIZE (Plastic pail / drum)

20 kg

PALLET COMMERCIAL QTY

33 x 20 kg - total 660 kg

PALLET QTY PACKING INFORMATION

76 pails - total transport weight approx. 590 kg packed into 1 pcs cardboard box 120x80x100 cm at an EU export wood pallet.

CUSTOMS TARIFF N.O

38249970

ORIGIN

Originated European Community (EU)

TRANSPORT REGULATIONS

None (not dangerous goods).

LABELING ACCORDING TO CLP (1272/2008 / EC)

Pictograms: n/a

Signal word: n/a

Hazard: H412

Precautionary statements: P273, P501

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