

Collosil[®] 635

Inorganic adhesive based on alkali silicate

Chemical description

Collosil 635 is a fire proof adhesive based on alkali silicate for stable and high strength bonds.

Mode of action

Collosil 635 is cured both by physical drying (water abstraction) and by reaction with carbon dioxide (contained in the air) or with reactive substrate surfaces. The bond is heat stable and can withstand high temperatures up to about 800 °C. Depending on applied quantities and temperature also a stable silicate based foam may be created.

The preferred application of Collosil 635 is in original concentration via doctor blade or roller coater.

Specification (average values)

Solids content:	approx. 58,0 %	007 *)
Density (20°C):	approx. 1,60 g/cm ³	042 *)
pH value:	approx. 11,0	008 *)
Viscosity (20°C):	approx. 2.300 mPas	053 *)
Solubility:	miscible with water	
Appearance:	amber paste	
Smell:	none	

*) Internal method code – description available on request

Properties

- Inorganic, alkaline product,
- Good flame retarding effect,
- Heat and acid proof,
- Non toxic and ecocompatible,
- Free of solvents (no VOC),
- No toxic vapours during application or at elevated temperatures,
- High bond strength,
- Good wetting properties,
- Good storage stability.

Application

Collosil 635 is applied as an adhesive for temperatures up to 800 °C and for acid proof conditions.

Notice

Before application Collosil 635 has to be homogenised. The viscosity of the product shows temperature dependency.

Storage

Collosil 635 is sensitive to frost as from +10°C and has to be protected from direct sunlight and heat. Collosil 635 must not be stored in aluminium or galvanized containers. The receptacles must be kept tightly closed. Storage stability in originally sealed containers at least 3 months.

Labelling / Safety

Not classified as dangerous according to EC Guidelines and German Ordinance on Hazardous Materials (GefStoffV).

For further information please consult our safety data sheet.

Packaging

On request.

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