

# Collosil<sup>®</sup> 645

## Inorganic adhesive with high bonding strength

### Chemical description

Collosil 645 is an adhesive based on alkali silicates.

### Mode of action

Collosil 645 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.

### Specification (average values)

Solids content:	approx. 50,0 %	007 *)
Density (20°C):	approx. 1,5 g/cm <sup>3</sup>	042 *)
pH value:	approx. 11,3	008 *)
Viscosity (20°C):	approx. 500 mPas	053 *)
Appearance:	turbid yellowish liquid	

\*) Internal method code – description available on request

### Properties

- inorganic, alkaline product,
- excellent wetting of paper, metal foils and mineral fibres,
- no toxic vapours during application or at elevated temperatures,
- enhanced water resistance,
- fire and acid proof,
- free of solvents (no VOC),
- good storage stability.

### Application

Collosil 645 is preferably applied for gluing composite materials. At least one of both materials must show good absorbency for liquids or open pore structure.

### Note

Collosil 645 has to be homogenized by stirring before application.

### Storage

Collosil 645 is sensitive to frost as from +5°C. Collosil 645 must not be stored in aluminium or galvanized containers. The receptacles must be kept tightly closed. Storage stability in originally sealed containers 6 months.

Collosil 645 must be protected from frost and must not be stored in aluminium or galvanized receptacles. Storage stability in closed containers 6 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

10/2015

