



Dear Readers,

The first issue of Tego Talk this year concentrates on combating damage to buildings and masonry caused by water. With the TEGO® Phobe 6XXX range of dependable hydrophobing agents for masonry protection systems, Degussa offers you specific ways of preventing damage.

You will also be able to obtain first hand information on our hydrophobing agents and new products at our stand at the **European Coatings Show**, from **8 to 10 May 2007 in Nuremberg**. Tego will present its core competences in additives and resins under Degussa "Smart Formulating" at **Stand No. 315 in Hall 1**. We are looking forward to discussing reliable, innovative, tailor-made solutions with you personally.

Make the most of the opportunity to talk to our experts at these and other exhibitions in 2007. Up to date schedules and news are online at www.tego.de.

Thank you for your interest and enjoy reading Tego Talk!

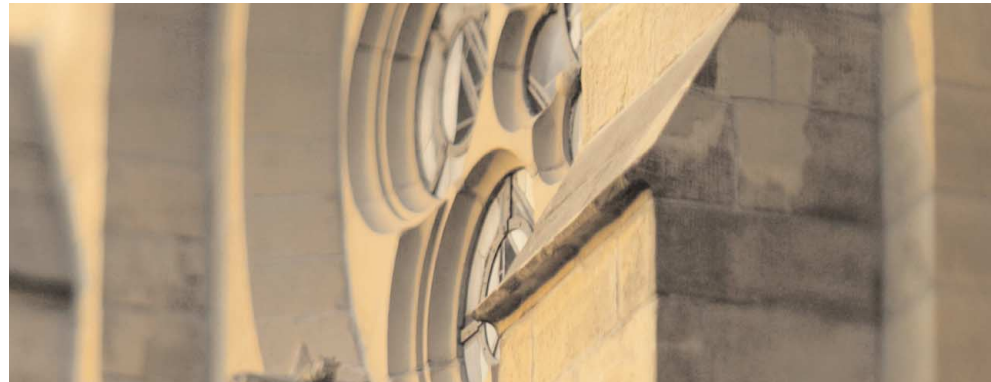
Yours

Udo Dalig

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Business Manager Europe

Masonry protection using hydrophobing agents – the best solution!

The TEGO® Phobe range of water repellents from Degussa has been specially developed for use in masonry protection systems



Water is the most frequent cause of damage to buildings and masonry. Common reasons for moisture in substrates include design errors or defects in the external structure. Masonry protection is thus of major importance in maintaining asset value. Typical phenomena which can occur through the action of water include:

- > cracking
- > efflorescence of salts
- > damage to the structure by salts or frost
- > discoloration
- > colonization by microorganisms such as algae and fungi

The choice of raw material and pigment volume concentration (PVC) play a major role in formulating exterior paints. The PVC determines paint properties such as porosity, permeability to water vapor and water pick-up.

If the PVC is far below the CVPC (critical pigment volume concentration), the paint film is closed and thus offers very good protection against direct exposure to precipitation. Exterior paints formulated in this way, however, are impermeable to water. This means that any moisture in the masonry is prevented from passing through the coating and damage to the building can occur in the form of:

- > paint blisters
- > delamination of coatings.

Open-pore systems with higher PVCs enable masonry to dry out. The use of TEGO® Phobe products also results in such paints providing reliable protection against direct exposure to precipitation.

The following products in the TEGO® Phobe range are used in exterior coatings to prevent the damage to buildings and masonry described above:

> TEGO® Phobe 1650 as a co-binder produces an outstanding reduction in the water pick-up of coatings combined with excellent early water resistance thus effectively protecting masonry from direct penetration by rainwater, etc.

> TEGO® Phobe 1401 and TEGO® Phobe 1500 N impart a beading effect to the paint and minimize wetting of the coating by water. In siloxane and silicate paints, TEGO® Phobe 1401 and TEGO® Phobe 1500 N also reduce water pick-up.



Hydrophobing agents for masonry paints and plasters:

		TEGO® Phobe 1401 emulsion	TEGO® Phobe 1500 N solution in solvent	TEGO® Phobe 1650 emulsion
Silicone resin paints/plasters	Reduction of water pick-up			+
	Beading effect	+	+	
Siloxane paints	Reduction of water pick-up		+	
	Beading effect	+	++	
Silicate paints/plasters	Reduction of water pick-up	+	+	
	Beading effect	+	+	

The TEGO® Phobe 6XXX range is ideal for reducing the water pick-up of natural stone and mineral building materials, such as concrete and plaster. The products distinguish themselves by high penetrating power and excellent in-depth action. Since they do not form closed films, the appearance of the

building exterior is unaltered by the hydrophobing. The water vapor diffusion characteristics of the masonry are retained, a particular advantage when renovating historical buildings.

The properties of the TEGO® Phobe 6XXX range of products also show benefits in primers. They reduce the absorbency of the substrate and thus extend drying and time available to apply a subsequent coating. The choice of hydrophobing agent depends on the alkalinity of the substrate.

Hydrophobing agents for impregnation and primers:

		TEGO® Phobe 6000 solventborne	TEGO® Phobe 6500 waterborne	TEGO® Phobe 6600 waterborne
Neutral and slightly alkaline substrates	e.g. natural stone, calcareous sandstone	+		+
Alkaline substrates	e.g. fresh concrete		+	

The TEGO® Phobe range of products for use in masonry protection systems meets your expectations and stringent market requirements. These hydrophobing agents offer high quality solutions for preventing damage and providing permanent protection for masonry and substrates.

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To request further information or samples please tick the appropriate box:

- TEGO® Phobe 1401
 TEGO® Phobe 1650
 TEGO® Phobe 6500
 Produktoverview
 Tego Journal
 TEGO® Phobe 1500 N
 TEGO® Phobe 6000
 TEGO® Phobe 6600
 Tego Base 2005
 Please contact me

= Sample = Data Sheet

Further information can be found under www.tego.de