

# **TEGOSIVIN® HL 101** TEGOSIVIN<sup>®</sup> HL 102

- New Masonry Water Repellents



Oligomeric Siloxanes for solvent born water repellents



### TEGOSIVIN<sup>®</sup> HL 101 TEGOSIVIN<sup>®</sup> HL 102

for impregnation, primer and chemical horizontal barriers (DPC)

Oligomeric Siloxanes
Catalyst-free
100 % actives
Ethoxyfunctional
Low VOC contents
Excellent water repellenct
Excellent beading propert
High impregnation depths
Efflorescence controlling



•Recommended dilutions 5-10 % actives in white spirit

•Recommended Substrates Concrete and mortars Artificial limestone Neutral and Natural stones

#### Requirements for Masonry Water Repellents



The main function of water repellents is to prevent liquid water from penetration into the building materials. To achieve long term performance water repellents need to penetrate beyond the surface layer into the interior substrate of the porous material.

#### Product Requirements:

Reduction of water absorption > 70%

Protection from driven rain

Efflorescence control High

penetration depth



No significant reduction of water vapour permeability

Strong beading properties

Easy application

Cost effective



#### Protection due to water repellence



Unprotected substrate:

Protected substrate:





i OH-function

Water and dissolved pollutions are repelled by a TEGOSIVIN treatment

## TEGOSIVIN<sup>®</sup> HL 101 and HL 102 reduce water uptake by more than 70 %



#### WATER UPTAKE (10 % actives)



#### TEGOSIVIN<sup>®</sup> HL 101 and HL 102 efficiently protect buildings from water damage



#### **IMPREGNATION DEPTH (10 % actives)**



\*: treatment procedure s. p. 5

# TEGOSIVIN<sup>®</sup> HL 102 provides excellent beading



BEADING EFFECT (10 % actives)



- The beading effect checked 7 d after impregnation
- 0.5 ml water was placed onto the specimen for 10 minutes
- The droplet has to be moved by shaking and the surface was observed for wetting
- Rating: 6: worst, droplet penetrated; 0: best, no droplet ist placable

# Guide formulation for solvent based MWR's



#### TEGOSIVIN<sup>®</sup> HL 101 TEGOSIVIN<sup>®</sup> HL 102

Products	Premium quality	Good price performance ratio	Economic products
TEGOSIVIN®			
HL 101/102	10%	7.5 %	3 - 5 %
White Spirit 140/190	90%	92.5 %	95 - 97 %

## TEGOSIVIN<sup>®</sup> HL 101 and HL 102 at a glance



#### TEGOSIVIN<sup>®</sup> HL 101 - one product for all substrates

- suitable for neutral and alkaline substrates!
- suitable for the formulation off all solvent based products (impregnation, primer, horizontal barriers)
- strong reduction of water uptake
- high penetration depth

#### TEGOSIVIN® HL 102 provides excellent beading properties

excellent beading of treated Substrates due the super hydrophobic technology but without tin-organic catalysts – no additional beading additive required



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