



Rev 1  
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# TEKWELD

Aqueous emulsion of synthetic resins for non-structural casting shots



## DESCRIPTION

High-density synthetic resins in water dispersion, stable in alkaline environment, specially formulated for cement mixtures. They give them high resistance to water and moisture, oils, solvents and many chemicals.

Films formed by TEKWELD are not remulsifiable in either cold or hot water.

It is used for preparing adhesive compounds and for cementitious mortars, for skimming mortars, for restoring deteriorated, chipped structures, for filling cracks, or for restoring and leveling flat concrete surfaces.

Adhesive compounds and bonding grouts are used to create a bonding layer between old concrete and repair mortar, for protecting reinforcing bars, and for waterproofing concrete surfaces.

Remarkable results are obtained in the application of ceramic or terracotta coatings in particularly exposed or even immersed areas. The addition of TEKWELD to cementitious adhesives or restorative beton makes it possible to obtain a product enhanced in its characteristics of adhesion, flexibility, shrinkage, resistance to vibration, impermeability to water, oils, diluted acid and alkali solutions, resistance to frost and temperature ranges, adhesion to reinforcing bars and metal substrates, mechanical strength and wear resistance.



## PHYSICAL PROPERTIES

Appearance	milky white liquid
Density at 20 °C	1.00 ± 0.02 g/cm <sup>3</sup>
Emulsifying system	Anionic/nonionic
Minimum filming temperature	5 °C
Glass transition temperature	> 24 °C
Mechanical stability	excellent
Compatibility with mineral fillers	excellent

## PREPARATION

**ADHESIVE COMPOUND:** by slowly stirring the solution of water and TEKWELD, cement is added until the consistency suitable for the application to be made is obtained, striving for a homogeneous mixture free of lumps.

**BETONCINI DA RIPRESA:** having mixed aggregates and cement as per the dosages indicated, the TEKWELD solution and water are added, trying to obtain a homogeneous mixture with a consistency suitable for the use to be made of it, not losing sight of the importance of the reduced water-cement ratio to the maximum allowed.

Both adhesive compounds as well as repair mortars should be applied on sound substrates, clean of all foreign matter as well as dust; surfaces should be saturated with water in order to allow the adhesive compound to penetrate deeply through the capillaries of the substrate and to prevent the air contained in the capillaries from allowing said penetration and later, as temperatures change, causing air cushions that cause swelling and subsequent detachment.

TEKNICAL DATA SHEET



TEKNA CHEM S.p.A.

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## CONSUMPTIONS

For 1 mm thick grouts approx. 150gr/sqm.  
For 1-cm-thick concrete approx. 300gr/sqm.

## DOSAGE

### Grouts:

Tekweld	1 lt
H <sub>2</sub> O	1 lt
Portland or Pozzolanic Cement	about 2.5 lt



### Mortars for thickness < 10 mm:

Tekweld	1 lt
H <sub>2</sub> O	2 lt
Portland or Pozzolanic Cement	about 5 lt
Sand (0-1 mm)	about 12 lt



### Mortars for thickness > 10 mm:

Tekweld	1 lt
H <sub>2</sub> O	3 lt
Portland or Pozzolanic Cement	about 7 lt
Sand (0-1 mm)	about 8 lt
Sand (0-5 mm)	about 8 lt



The fluidity of mortars should be adjusted according to the applications, not losing sight that the use of water should be kept to a minimum.

## STORAGE AND PRESERVATION

Must be stored at temperatures above 0°C.

## PACKAGING

5-10-25 kg tanks  
1000 kg canisters

## LEGAL NOTES

The information contained in this data sheet, while representing the most advanced stage of knowledge, does not exempt the user from performing accurate preliminary tests under his own conditions of use and operation. Therefore, no liability is accepted for improper use of the product.