



PVC-Cold-Welding Technique

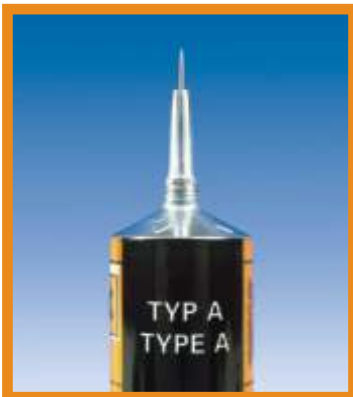
Seam Sealing

For PVC-floor coverings, PVC-wallpapers,
PVC-profiles and PVC-foils

Advantages:

- permanent waterproof
- prevents lifting up of the seam edges
- easy to use.

Contents:
30 tubes of each 44 g
in a combination
of your choice.



Tube Type A: PVC-Cold-Welding Liquid

- for PVC-floor coverings with closely-cut seams (double cut). The metal needle in the tube's nozzle enables an optimal PVC cross-sectional welding of the seam.

Contents:
44 g for approx. 20 m of seam,
132 g for approx. 60 m of seam.

Durability: 3 years from date of production, if the products are always kept dry, free of frost and not stored above 30 °C.

Tube Type C: PVC-Cold-Welding Paste

- for PVC-floor coverings with gaps of 0.3 to 4 mm (repair work)
- for PVC-wallpapers and PVC-profiles
- for the reinforcement of loop-pile carpet seams
- for welding of PVC-dirt traps
- for welding of PVC-foils (from 0.5 mm of thickness)
- for the repair of artificial leather.



Contents:
44 g for approx. 15 m of seam,
132 g for approx. 45 m of seam.

WM Cold-Welding Technique for PVC-Floor Coverings

offers 3 unmistakable advantages:

Stands the test for more than 25 years with excellent quality!



The "Legendary Needle"

A metal needle that is mounted firmly in the tube. Guarantees an easy and safe application.



Health Safety

If used properly the products are harmless to your health. Proven through tests done by an independent and accepted specialized institute and published in the "Handbuch Bau-Chemikalien" (construction chemicals' handbook).



Seam Tensile Strength

Very high seam tensile strength - exceeds the values of the European Norms by far. Tested, certified and documented by the "iff-Prüfinstitut für Bau- und Fußbodentechnik".



Our products for a permanent and watertight sealing of seams



Tube Type A

Closely-cut seam



Tube Type C

Repair



Tube Type T

PVC with felt backing



Safe Results The Easy Way

The 3 Steps WM System for a successfully sealed seam in PVC-floor coverings



Much success with only a few tools!



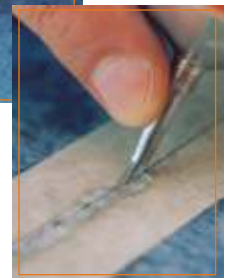
1 Place special masking tape centered over the closely-cut seam and press on tightly with a roll.



2 Cut masking tape easily with the rolling knife in the area of the seam.



3 With one hand press the needle of the tube firmly inside of the seam and pull along. With the other hand dose Cold-Welding Liquid so that an approx. 5 mm wide line appears on the masking tape.



***The result:
A nearly invisible and watertight seam!***



After approx. 10 minutes pull off the masking tape backwards at an angle.

EG-Safety data sheet (group material safety data sheet)

According to article 31 Regulation (EC) No 1907/2006 (REACH) and Directive 98/24/EC

Date of issue: 15.06.2007

Date revised: 15.06.2007

Version 15WM_E

Page 1 of 7

1. Identification of the preparation and of the company

Identification and use of the preparation:

Group I: PVC-Cold-Welding Paste (Type C), PVC-Cold-Welding Paste (Type T), PVC-Seal Paste
(Use: Welding of PVC-Floor- and Wall-Coverings, PVC Foils and other PVC Materials).

Group II: PVC-Cold-Welding Liquid (Type A), PVC-Seal-Cold-Welding Fluid, (Use: Welding of PVC-Floor- and Wall-Coverings, PVC Foils and other PVC Materials).

Group III: Cleansing-Container, Refill Liquid for Cleansing-Container (Use: Cleaning of nozzles)

All preparations show almost identical physical-chemical, safety technical, toxic and ecological properties. The groups I, II + III differ in point 3 (composition / information on ingredients), point 10 (stability and reactivity) and point 14 (transport information).

2. Hazards identification

Indications of danger for dangerous substances and preparations:

Highly flammable.

May form explosive peroxides.

Irritating to eyes and skin.

3. Composition/information on ingredients

	percentage Tetrahydrofuran (stabilized)
Group I:	80-89 %
Group II:	90-95 %
Group III:	98-100 %

Tetrahydrofuran (stabilized):

CAS-Nr.: 109-99-9

EG-Nr.: 203-726-8

Index-Nr.: 603-025-00-0

F highly flammable, Xi irritant, R11, R19, R36/37 (see point 15)

Further information see no. 8 "Exposure Controls and Personal Protection"

4. First-aid measures

Poison Control Center: Emergency number: + 49-6131-19240

General Advice:

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. Helper pay attention to your own safety.

4. First-aid measures

Inhalation: keep patient calm, remove to fresh air, summon medical help.

Skin contact: Immediately wash thoroughly with soap and water, consult a skin specialist.

Eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Ingestion: Rinse mouth immediately and then drink plenty of water, summon medical help.

5. Fire-fighting measures

Suitable extinguishing media: water, dry powder, foam, carbon dioxide (CO₂).

Special protective equipment: In case of fire, wear a self-contained breathing apparatus and chemical-protective clothing.

Further information: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions: In case of unintended release insure sufficient ventilation / sufficient breathing protection. Avoid contact with eyes and skin. Remove sources of ignition (to this see also no. 8).

Environmental precautions: Do not allow to reach sewerage, surface- and underground water as well as ground.

Methods for cleaning up: Absorb small amounts with absorbent material and dispose correctly. Larger spills should be dammed-off and pumped into containers; (Pay attention to explosive atmosphere); Soak up remainder with absorbent material and dispose of in accordance with local regulations (see point 13).

7. Handling and storage

Handling:

Protection against fire and explosion: Ensure thorough ventilation of storage and work areas.

Prevent electrostatic charge – sources of ignition should be kept well clear.

Storage:

Prevent contact with air / oxygen (formation of peroxide).

For storage do not use containers out of PVC.

Storage class 3A: Flammable liquid substances (concept of the German Association of Chemical Industry)

Products are always to be kept dry, free of frost and not stored above 30 °C. Best temperature for use is from 16 to 25 °C. Ensure sufficient air circulation during workmanship. Close tube/can always tightly. The last digit of the 6-digit code on the fold of the tube resp. on the label on the bottom of the can shows the year in which the product was manufactured, both digits before the last one show the month. The durability lasts 3 years from the date of manufacturing (see fold of tube or label) if storage conditions are kept as described above.

8. Exposure controls/personal protection

Threshold at the workplace has to be considered (Germany):

Tetrahydrofuran CAS-No. 109-99-9

AGW: 150 mg/m³; 50 qqm (TRGS 900 (DE))

EG-Safety data sheet (group material safety data sheet)

According to article 31 Regulation (EC) No 1907/2006 (REACH) and Directive 98/24/EC

Date of issue: 15.06.2007

Date revised: 15.06.2007

Version 15WM_E

Page 3 of 7

8. Exposure controls/personal protection

Peak limit factor / Exceeding factor: 2

A risk of embryonic damage has not to be feared if the working place threshold is met.

Dermal effect (TRGS 900 (DE)). Substance can be absorbed through the skin.

STEL C (TRGS 900 (DE))

Category I: Substances for whose located effect an assigned OEL exists, or substances with a sensitizing effect to the respiratory tract.

	Measurements	Average	95 percentile	Minimum	Maximum
Tetrahydrofuran	29	60.6 mg/m ³	138.2 mg/m ³	2.0 mg/m ³	213.0 mg/m ³

No need to take action for respiratory protection if used properly.**Personal protective equipment:****Respiratory protection:**

No need according to the exposure description above, if used properly.

In exceptional circumstances like accidental disposal, wearing respiratory protection is necessary.

Gas filter for organic gas and vapours: Type A.

Hand protection:

Chemical Protection Gloves out of nitrile-butadien-rubber with a minimum thickness of 0.4 mm are suitable to be used for splash protection. Latest 5 minutes after contamination with the chemical, take off the skin protection and reject.

Protection of the body: closed working clothes**General safety and hygiene measures:** Usual Safety Precautions for the handling of chemicals are to be observed. Avoid contact with skin, eyes, clothing and the inhaling of vapors.

9. Physical and chemical properties

Form: liquid to paste like

Color: various

Change in physical state:

Melting point / Melting range:

-108 °C

Boiling point / Boiling range:

65,5 °C – 66,5 °C

Flash point:

-21,5 °C

(DIN 51 755)

Explosion limits:

lower:

1,5 Vol.%

upper:

12,0 Vol.%

Ignition temperature:

230 °C

(DIN 51 794)

Vapor pressure:

173 mbar (20°C)

Density:

0.8870 g/cm³ (20°C)

Solubility in water:

(20°C) partially miscible

Solubility in other solvents:

miscible with many organic solvents.

pH-value:

(at 200g/l, 20°C) 7 – 8.

Partition coefficient:

n-Octanol/Water (log Pow): 0,45.

Viscosity:

0,5-2045 mPa s

10. Stability and reactivity

Conditions/Substances to be avoided:

Minimize exposure to oxygen/air.

Minimize exposure to light.

Hazardous reactions:

Development of peroxides.

Hazardous decomposition products:

Group I+ II: Peroxides, in case of fire: Hydrogen chloride (HCL)

Group III: Peroxides

11. Toxicological information

Acute toxicity

Virtually nontoxic after single ingestion. Virtually nontoxic by single inhalation. Inhalation-risk test (IRT): Mortality within 60 minutes as shown in animal studies. The inhalation of a highly saturated vapour-air mixture represents an acute hazard. High concentrations in the air may cause narcosis. The substance can be absorbed through the skin.

11. Toxicological Information

LD50 rat (oral): 4.430 mg / kg (BASF-Test).

LC50 rat (by inhalation): 66 mg/l 22000 ppm 4 h (BASF-Test).

Irritation

Irritating to eyes and respiratory system. EU-classification

Primary skin irritation / rabbit / BASF-Test: Irritant.

Primary irritations of the mucous membrane / Literature data: Irritant.

Sensitization

Skin sensitizing effects were not observed in animal studies.

Guinea pig: Non-sensitizing (Literature data).

Genetic toxicity

Most of the results from the numerous studies available show no evidence of a mutagenic effect.

Reproductive toxicity

The results of animal studies gave no indication of a fertility impairing effect.

12. Ecological information

Ecotoxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50, 96 h, 2,160 mg/l, Pimephales promelas, Flow through.

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Aquatic invertebrates:

EC50, 24 h, 5,930 mg/l, Daphnia magna, DIN 38412 Part 11, static.

The details of the toxic effect relate to the nominal concentration. Literature data.

Aquatic plants:

EC50, 8 d, > 3,700 mg/l, Scenedesmus quadricauda, DIN 38412 Part 9, static

The details of the toxic effect relate to the nominal concentration. Literature data.

Microorganisms/Effect on activated sludge:

EC50, 16 h, > 580 mg/l, Pseudomonas putida, DIN 38412 Part 8, aquatic

The details of the toxic effect relate to the nominal concentration. Literature data.

EC20, 0.5 h, approx. 800 mg/l, activated sludge, domestic, OECD Guideline 209, aquatic

The details of the toxic effect relate to the nominal concentration.

EG-Safety data sheet (group material safety data sheet)

According to article 31 Regulation (EC) No 1907/2006 (REACH) and Directive 98/24/EC

Date of issue: 15.06.2007

Date revised: 15.06.2007

Version 15WM_E

Page 6 of 7

12. Ecological information**Persistence and degradability**Assessment biodegradation and elimination (H₂O):**Biodegradable.**

Elimination information:

80 - 90 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, adapted)

90 - 100 % BOD of the ThOD (14 d) (OECD Guideline 301C; ISO 9408; 92/69/EEC, C.4-F) (activated sludge). Literature data.

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log POW) accumulation in organisms is not to be expected.

Additional advice

Do not release untreated (biological treatment plants) into natural waters.

13. Disposal considerations

Not dried out residues must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

Waste code no.

08 04 09

Kind of waste

Adhesives and sealing compounds containing organic solvents or other hazardous substances.

Contaminated packaging:

Contaminated packaging should be optimally emptied; they can then be passed on for recycling after being thoroughly cleaned.

14. Transport Information

				Transport by Land Navigation ADR/RID	Transport by Airfreight ICAO/IATA			Transport by Ocean Freight IMDG / GGVSee	
Preparation:	UN-Number:	Class:	Packing Group:	Proper Shipping Name:	Proper Shipping Name	Packing Instructions (Passenger)	Packing Instructions (Cargo)	Proper Shipping Name	EmS-Number
Group I Group II	1133	3	II	Klebstoffe (enthält Tetrahydrofuran, Dampfdruck bei 50°C höchstens 110 kPa)	Adhesives containing flammable liquid	305	307	ADHESIVES, containing a flammable Liquid	F-E S-D
Group III	2056	3	II	Tetrahydrofuran	Tetrahydro- furan	305	307	TETRAHY- DROFURAN	F-E S-D

EG-Safety data sheet (group material safety data sheet)

According to article 31 Regulation (EC) No 1907/2006 (REACH) and Directive 98/24/EC

Date of issue: 15.06.2007

Date revised: 15.06.2007

Version 15WM_E

Page 7 of 7

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

Tetrahydrofuran: EC-Number 203-726-8, Index-Number 603-205-00-0

Hazard symbol(s)

F Highly flammable.

Xi Irritant.

R-phrases(s)

R11 Highly flammable.

R19 May form explosive peroxides.

R36/37 Irritating to eyes and respiratory system.

S-phrase(s)

S 2 Keep out of the reach of children.

S16 Keep away from sources of ignition – No smoking.

S29 Do not empty into drains.

S33 Take precautionary measures against static discharges.

National legislation / regulations

TA Luft (Deutschland): 5.2.5. organic gas, general regulation**Water hazard class (Germany):** WGK 1 slightly water endangering

16. Other Information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and that the legislation is observed.

Vertical lines at the left margin show the modifications done since the last version.